A2500-2

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 67 No. 10 **OCTOBER 1989**

PAPER AND PAPERBOARD PRODUCTION: EASING

Paper and paperboard production eased fractionally below the level trend evident since the beginning of 1988 during the third quarter of 1989, largely the result of maintenance and repair downtime at paperboard mills during September. Weekly data for October suggest that production may have moved back to its trend, pointing the 1989 total to a level that will match the record-high 1988 level. The third quarter 1989 rate of paper production matched its second quarter level, but the paperboard rate was off by about one-half percent. The year-to-date totals, however, show paper off by 1.0% from its year-ago level, offset by a 0.7% gain in paperboard.

Paper: Weaker demand for uncoated free sheet papers in the business forms, envelopes and commercial printing markets is the primary reason for the 2.4% year-to-date decline in shipments. The modest increases in usage in office reprographics and stationery have not been enough to offset the losses posted in the other major end-use markets. However, the seasonally adjusted trend of total uncoated free sheet paper shipments moved upward during August and September. New orders have been above the shipments level since June and unfilled orders surged upward.

The January-September 1989 coated paper shipments totals in most major market segments were below year-ago levels, largely reflecting the weaknesses evident in the first half of the year. At an annual rate of 7.1 million tons, the year-to-date total lagged its year-ago volume by over 4%. The seasonally-adjusted trend moved strongly upward during the third quarter, bringing the current level back to the highs noted during the middle months of 1988. Unfilled orders at the end of September were 19.4% above last September's level while imports were down nearly 4%, indicating that more new orders are being filled from domestic sources. Inventories in the hands of producers, which were building steadily from mid-1988 to mid-1989, receded by 10% during August and September.

For the third time this year, shipments of uncoated groundwood papers surpassed the 150,000-ton mark to register a year-to-date annual rate of almost 1.8 million tons, nearly 9% above the January-September 1988 figure. Shipments to commercial printers provided much of the boost.

Tissue paper production continued to follow the trend established earlier this year. With monthly totals in the 470,000-ton range through most of the first three quarters of 1989, the year-to-date total was 2.6% ahead of its comparable 1988 figure.

COPYRIGHT © 1989 AMERICAN PAPER INSTITUTE 260 Madison Avenue New York, N.Y. 10016

Newsprint demand remained steady at an annual rate of about 6 million tons, marginally above last year's nine-month rate. However, demand for kraft packaging papers continued to slacken, with monthly shipments still in the low 200,000-ton range, and the year-to-date total 5.5% behind last year's rate.

Paperboard: Production of the wood-pulp based paperboard grades were above their respective year-ago levels during the first nine months of 1989. The largest gains were evident in the containerboard grades with production of containerboard for domestic use up 1.2% and boxboard for domestic use up 0.8%. The gain in containerboard shipments was consistent with the 1.3% increase in shipments of corrugating shipping containers reported for this period.

Recycled paperboard output has eased during the past few months, with the year-to-date total down 2.2%. This weakness shows up in the output trend of "All Other Paperboard" for domestic use, largely the result of an 8% decline in gypsum wallboard facing which, in turn, reflected the weakness in residentail construction. Output of the recycled packaging grades was down only fractionally, as was output of solid bleached folding boxboard. Unbleached kraft folding boxboard, which accounts for about 18% of the folding boxboard total, gained 4%.

INVENTORIES

There is strong evidence that inventories of uncoated free sheet papers in the hands of consumers were sharply reduced during the first six months of 1989 and have since leveled off. Mill inventories have been rising, but the tonnages involved are small relative to total consumption. The recent jump in the seasonally-adjusted rate of shipments, which reflected in part the end of the downswing in user inventories, and the gain in unfilled orders, suggests new strength in demand for these papers.

The vitality in demand for uncoated groundwood papers is evident in the trend of mill inventories, which have been falling steadily since the end of May. The monthly new orders totals have been above the level of shipments since May, and unfilled orders as of the end of September 1989 were 30% above their year-ago level.

Inventories of containerboard at box plants as of September 30, 1989 were equivalent to 5.0 weeks of supply, compared to 5.5 at the end of August and 5.1 at the end of May, June and July. In tonnage terms, these inventories have been remarkably steady for the past 12 months, with the monthly levels holding to within 5% of their 12 month average.

MARKET WOOD PULP

U.S. shipments of chemical paper grade market wood pulp through September are down 2% from last year. Shipments to the domestic market showed an 8% decline, but this was largely offset by a similar increase in Foreign demand for these grades. Almost 900,000 tons of chemical paper grade market pulp were exported to Japan so far this year, 30% ahead of last year's pace. Year-to-date exports to Western Europe, at 1.4 million tons, exceeded last year's volume by 10%. Shipments to the domestic market continue to run slower than they did at

PAPER AND PAPERBOARD STATISTICS

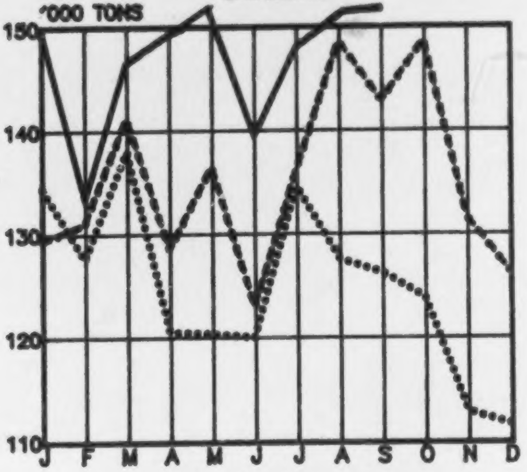
PRODUCTION, SHIPMENTS AND ORDERS
(Thousands of Short Tons)

	YEAR 1987	YEAR 1988	JUNE 1989	JULY 1989	AUGUST 1989 (R)	SEPTEMBER 1989 (P)	Annual Rate Y-T-D 1989	% Change From same Period Last Year
PAPER								
Newsprint - Production	5,842	5,982	498	522	510	517	6,019	1.0
- Shipments	5,854	5,969	498	521	517	518	5,992	1.3
Printing & Writing Sum	20,778	21,793	1,736	1,695	1,882	1,775	21,439	-2.0
Groundwood Paper - Shipments	1,498	1,624	139	148	151	152	1,761	8.5
- New Orders	1,542	1,654	149	151	166	176	1,817	12.0
-Unfilled Orders	166	208	199	191	217	233	233	29.5
Coated Papers - Shipments	6,860	7,359	580	572	651	611	7,109	-4.1
- New Orders	7,066	7,412	636	650	658	633	7,267	-2.7
- Unfilled Orders	708	751	737	825	848	882	882	19.4
Unctd Free Sheet - Shipments	10,936	11,277	886	852	952	885	11,042	-2.4
- New Orders	11,173	11,298	916	868	1,031	960	11,124	-1.9
- Unfilled Orders	772	790	609	613	714	770	770	-0.2
Thin Papers - Shipments	240	217	16	15	16	16	196	-8.0
Cotton Fiber Paper - Shipments	163	167	13	11	12	13	159	-3.7
Bleached Bristols - Production	1,052	1,150	102	98	100	98	1,173	2.3
Tissue Paper - Production	5,301	5,476	469	458	484	473	5,618	2.6
Total Packaging & Other Paper	4,955	5,047	401	392	426	408	4,882	-3.3
Unbl. Kraft Paper - Shipments RS	2,840	2,800	229	212	227	210	2,648	-5.5
Other Paper - Production RS	2,115	2,247	172	180	199	197	2,233	-0.5
TOTAL PAPER-Production-Unadj.	36,876	38,298	3,104	3,068	3,302	3,172	37,958	-1.0
-Production-S.A.			3,125	3,151	3,172	3,156	37,942	-1.0
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	28,859	29,316	2,503	2,577	2,585	2,408	29,880	1.5
Total Unbl. Kraft Paperboard	18,898	19,140	1,642	1,688	1,701	1,596	19,636	1.9
Unbl. Kraft Linerboard (1)	17,683	17,897	1,529	1,568	1,572	1,495	18,301	1.6
Production for Export	2,303	2,296	161	216	184	175	2,358	0.9
Other Unbl. Kraft Paperboard	1,215	1,244	113	119	129	101	1,335	5.7
Semichemical Paperboard	5,536	5,664	468	479	488	461	5,700	1.2
Production for Export	193	136	11	10	10	8	135	0.3
Solid Bleached Paperboard	4,406	4,511	394	410	396	351	4,544	0.5
Production for Export	619	628	57	54	59	51	657	5.2
Recycled Paperboard	8,601	8,789	718	682	725	695	8,638	-2.2
Production for Export	75	72	3	2	3	1	32	-59.7
TOTAL PAPERBOARD-Prod.-Unadj.	37,442	38,105	3,222	3,259	3,311	3,103	38,519	0.7
- Containerboard Prod.(Dom. Use)	23,025	23,563	2,024	2,023	2,074	1,965	23,892	1.2
- Boxboard Prod.(Dom. Use)	6,969	7,066	613	614	623	559	7,150	0.8
- All Other P'bd Prod.(D.U.)	4,262	4,344	353	340	358	343	4,295	-2.0
- Total Paperbd Prod. for Export	3,190	3,132	232	282	255	236	3,182	0.2
TOTAL PAPERBOARD PROD.- S.A.			3,240	3,252	3,183	3,134	38,488	0.7
TOTAL PAPER AND PAPERBOARD								
Production - Unadj.	74,318	76,403	6,326	6,327	6,612	6,275	76,477	-0.2
Production - S.A.			6,365	6,403	6,356	6,289	76,430	-0.1

RS - Revised Series
(1)Includes all exports of kraft paperboard. R - Revised P - Preliminary S.A. - Seasonally Adjusted

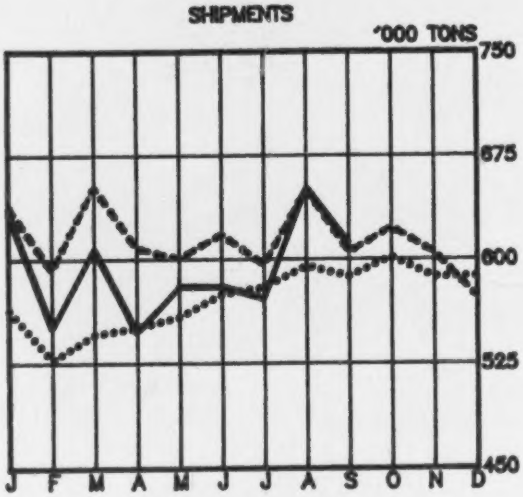
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



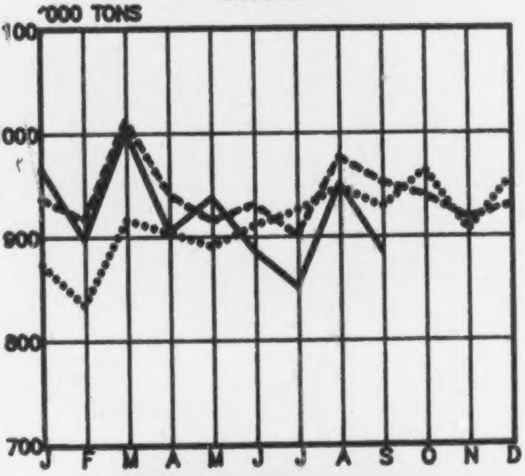
COATED PAPER

SHIPMENTS



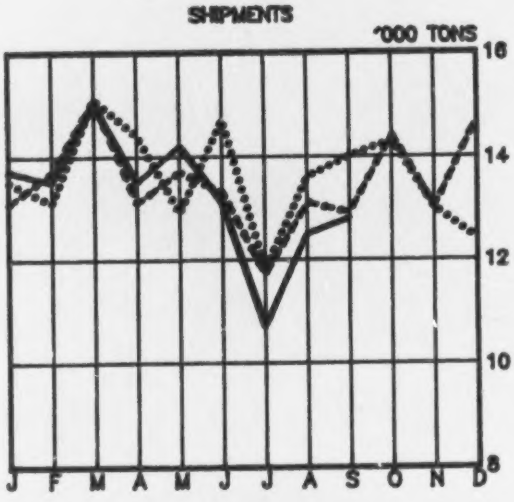
UNCOATED FREE SHEET PAPERS

SHIPMENTS



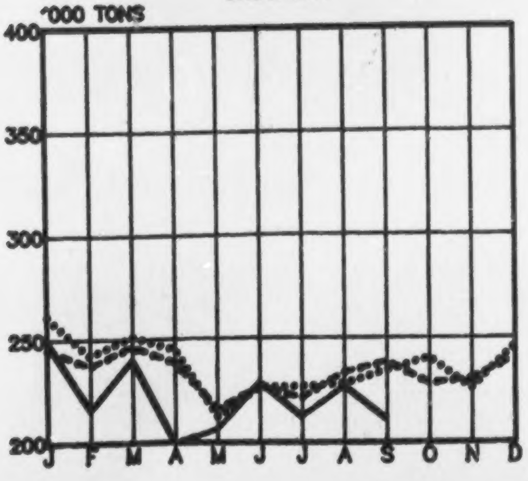
COTTON FIBER PAPER

SHIPMENTS



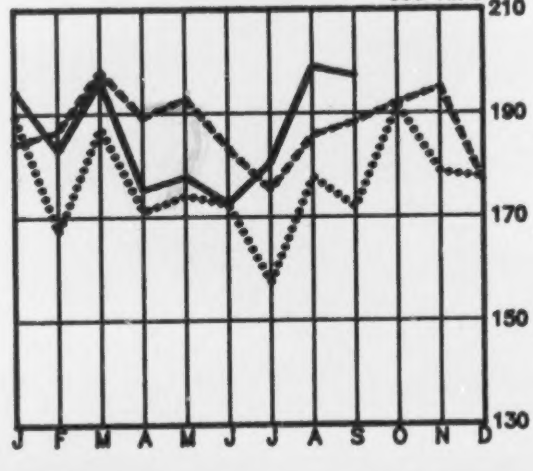
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1987 •••••••• 1988 -•-•-•- 1989 ———

WOOD PULP STATISTICS
(Thousands of Tons)

		YEAR 1987	YEAR 1988	MAY 1989	JUNE 1989	JULY 1989	AUGUST 1989	Annual Rate Y-T-D 1989	% Change from same Period Last Year
TOTAL WOOD PULP						R	P		
Total Wood Pulp	- Production	59,552	61,161	5,087	5,102	5,399	5,303	62,518	2.1
	- Imports	4,850	5,038 A	420	389	358	471	5,023	-1.0
	- Exports	4,889	5,528	504	562	540	534	6,375	18.2
	- New Supply	59,513	60,671	5,003	4,930	5,217	5,241	61,166	0.4
Dissolving Pulp	- Production	1,312	1,367	109	102	144	108	1,411	5.1
	- Imports	198	248	15	32	13	28	287	20.6
	- Exports	752	865	66	79	62	81	848	3.1
	- New Supply	757	751	59	55	95	55	849	12.2
Paper Grades Chemical Pulp	- Production	48,293	49,493	4,125	4,167	4,377	4,322	50,766	2.4
	- Imports	4,456	4,419 A	381	326	328	400	4,418	-1.1
	- Exports	4,111	4,612	435	474	472	441	5,443	20.3
	- New Supply	48,637	49,300	4,071	4,019	4,233	4,282	49,741	0.5
Groundwood and Thermo-Mech.	- Production	5,702	5,943	497	480	510	511	5,954	-0.3
	- Imports	197	371 A	23	31	17	43	319	-14.6
	- Exports	26	51	3	8	6	11	84	72.5
	- New Supply	5,872	6,263	517	502	521	543	6,189	-1.8
Semi-Chemical	- Production	4,246	4,358	356	353	368	361	4,387	1.0
	- Imports								
	- Exports								
	- New Supply	4,246	4,358	356	353	368	361	4,387	1.0
MARKET WOOD PULP									
Total Market Wood Pulp	- Production	8,114	8,565	721	739	761	757	8,896	3.8
	- Imports	3,235	3,471	307	267	284	261	3,338	-4.0
	- Exports	4,820	5,071	446	505	447	487	5,484	8.5
	- New Supply	6,529	6,966	581	501	599	531	6,750	-3.5
Dissolving Pulp	- Production	1,308	1,365	108	101	144	108	1,404	4.8
	- Imports	154	206	10	27	7	23	210	0.8
	- Exports	775	798	58	84	51	75	813	8.7
	- New Supply	687	774	60	45	99	56	801	0.1
Paper Grades Chemical Pulp	- Production	6,806	7,200	612	638	617	649	7,492	3.6
	- Imports	2,975	3,126	290	237	276	236	3,072	-1.0
	- Exports	4,045	4,273	388	422	395	412	4,671	8.4
	- New Supply	5,736	6,052	514	453	498	472	5,893	-2.2
Groundwood Pulp and All Other	- Production	0	0	0	0	0	0	0	0.0
	- Imports RS	106	139	7	3	2	3	56	-66.2
	- Exports	0	0	0	0	0	0	0	0.0
	- New Supply	106	139	7	3	2	3	56	-66.1

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.
NOTE: A - API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

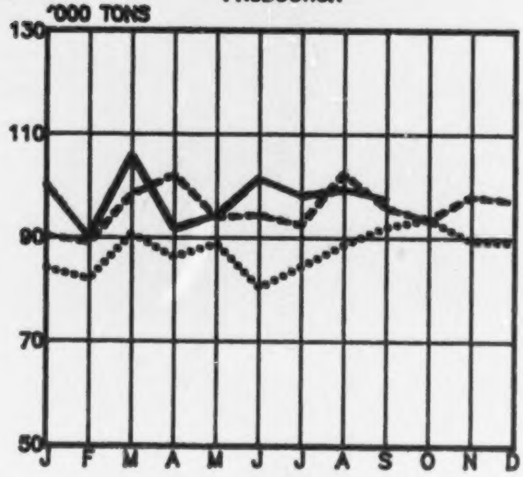
FIBROUS RAW MATERIALS
(Thousands of tons)

	YEAR 1987	YEAR 1988	MAY 1989	JUNE 1989	JULY 1989	AUGUST 1989	Annual Rate Y-T-D 1989	% Change from same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	77,468	79,707	6,696	6,576	6,786	6,891	80,625	1.0
Total Wood Pulp	59,474	60,847	5,072	4,985	5,207	5,241	61,586	1.1
Waste Paper	17,993	18,860	1,624	1,591	1,579	1,649	19,039	0.8
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	170	172	162	164	191	193	193	-3.1
Producers' Market Inventories	224	261	305	300	320	353	353	42.6
Consumers' Purchased Inventories #	529	622	628	588	573	591	591	-6.8
Waste Paper at Paper & Bd. Mills	902	1,029	1,024	1,037	1,007	1,053	1,053	19.4
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	12	14	15	15	16	17	17	30.8

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API. # Includes all grades of wood pulp.
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons RS - 1988 Revised Series

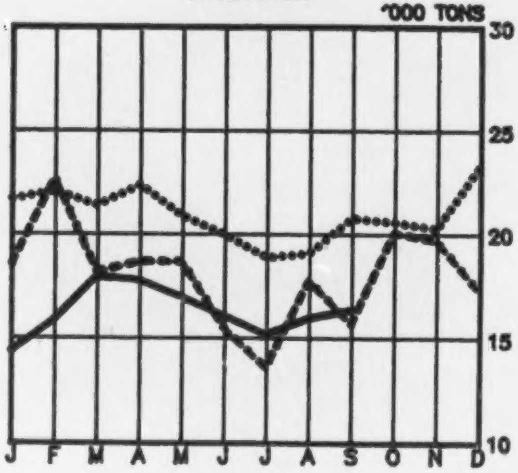
BLEACHED BRISTOLS

PRODUCTION



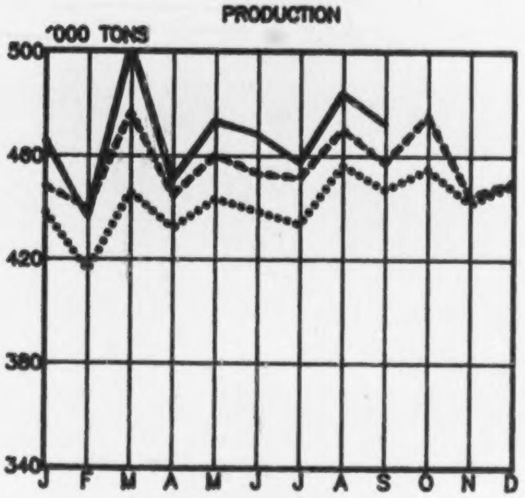
THIN PAPER

PRODUCTION



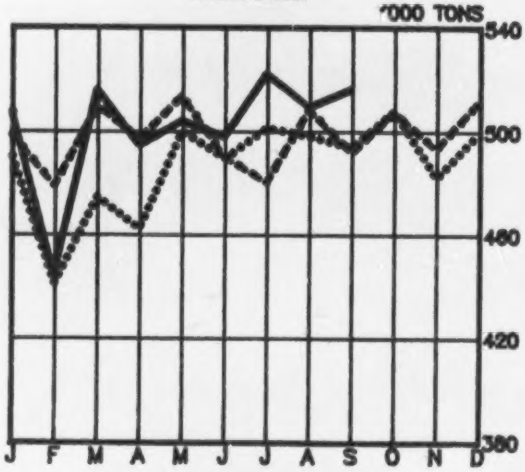
TISSUE PAPER

PRODUCTION



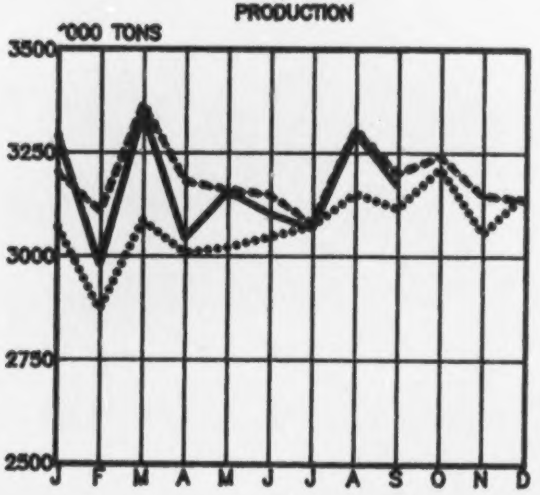
NEWSPRINT

PRODUCTION



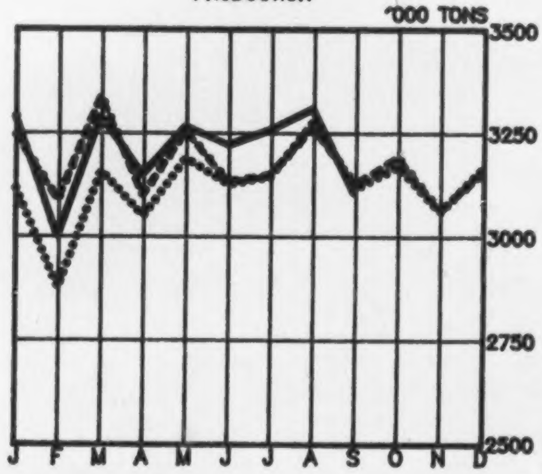
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1987 •••••••• 1988 ━ ━ ━ ━ 1989 ━━━━━

FIBROUS RAW MATERIALS

(Thousands of Standard (128 cubic foot) Cords)

		YEAR 1987	YEAR 1988	MAY 1989	JUNE 1989	JULY 1989	AUGUST 1989	Annual Rate Y-T-D 1989	% Change From Same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	94,312	95,537	8,005	8,358	8,476	8,946	98,799	4.6
	- Total Consumpt	93,946	95,497	8,112	8,348	8,548	8,498	98,865	3.7
	- Residues *	32,899	33,186	2,867	2,939	2,989	2,983	34,433	4.3
	- Inventories	5,096	4,888	4,320	4,343	4,191	4,415	4,415	2.1
So. Atlantic	- Total Receipts	31,147	31,582	2,646	2,616	2,719	2,778	31,941	3.0
	- Total Consumpt	30,915	31,567	2,646	2,697	2,814	2,684	32,409	3.5
	- Residues *	9,553	9,897	779	801	884	849	9,941	2.3
	- Inventories	1,211	1,200	943	911	811	889	889	-10.8
Northeast	- Total Receipts	6,941	7,187	502	584	590	628	7,224	3.5
	- Total Consumpt	7,109	7,216	582	549	579	598	7,178	-2.6
	- Residues *	1,543	1,664	129	126	97	146	1,637	0.9
	- Inventories	594	572	418	441	444	453	453	5.6
South Central	- Total Receipts	33,650	33,751	2,958	2,981	2,913	3,355	35,325	6.2
	- Total Consumpt	33,059	33,646	3,025	3,074	3,050	3,212	35,709	6.9
	- Residues *	9,992	9,890	944	850	823	936	10,316	4.8
	- Inventories	1,294	1,160	986	857	739	958	958	-2.9
North Central	- Total Receipts	6,552	6,865	524	598	582	640	6,968	-0.6
	- Total Consumpt	6,764	6,929	599	593	565	594	7,016	-0.7
	- Residues *	1,263	1,334	125	107	96	106	1,365	-1.3
	- Inventories	830	839	786	768	779	829	829	3.2
West	- Total Receipts	16,022	16,152	1,375	1,579	1,672	1,545	17,342	7.4
	- Total Consumpt	16,099	16,139	1,260	1,435	1,540	1,410	16,554	2.5
	- Residues *	10,548	10,401	890	1,055	1,089	946	11,175	6.9
	- Inventories	1,167	1,117	1,187	1,366	1,418	1,286	1,286	16.0

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association 19-Oct-89

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

		YEAR 1988 Tons	YEAR 1988 ($000's)	JULY 1989 Tons	JULY 1989 ($000)	AUGUST 1989 Tons	AUGUST 1989 ($000)	Annual Rate Y-T-D 1989 Tons	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)		39,337	4,195	422	24	20,495	326	116,673	186.2
Pulpwood chips		876,038	35,184	38,456	1,146	74,945	2,587	865,087	2.9
Wood Pulp, Total	A	4,340,245	2,282,329	284,946	175,147	429,515	258,141	4,378,030	0.4
Waste Fibrous Materials, Total		227,004	48,450	10,104	1,532	13,104	2,025	172,149	-28.0
Paper, Board & Products, Total	A	10,497,185	5,715,612	776,838	433,376	1,053,939	590,378	10,928,200	1.5
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	A	10,348,278	5,458,084	766,473	412,013	1,038,473	559,851	10,750,930	1.2
Paper, Paperboard & Products	A	10,283,277	5,649,813	768,714	431,330	1,040,425	586,871	10,764,249	1.9
Paper & Paperboard, Only	A	10,134,369	5,392,286	758,349	409,966	1,024,960	556,343	10,586,979	1.6
Paper, Total	A	9,869,253	5,295,796	728,828	397,696	981,793	539,224	10,163,599	0.1
Newsprint	A	8,284,709	4,320,023	586,823	302,532	767,226	394,548	8,019,996	-6.2
Printing, Writing & Rel. Pap.	A	1,304,003	807,306	121,169	79,601	181,956	120,450	1,832,368	39.4
Pack. & Ind. Conv. Paper		227,493	120,765	14,038	8,238	21,312	11,941	211,448	-10.0
Special Industrial Paper		4,767	9,106	2,956	3,717	6,190	7,599	43,831	866.1
Tissue Paper		48,281	38,596	3,843	3,608	5,109	4,686	55,955	11.8
Paperboard, Total		265,116	96,490	29,521	12,270	43,167	17,119	423,380	58.0
Convtd Paper&Paperbd Products		148,908	257,528	10,365	21,364	15,466	30,528	177,270	22.8
Wet Machine Board		2,939	2,120	22	16	8	6	302	-90.0
Construction Paper & Board		210,970	63,679	8,102	2,031	13,505	3,501	163,649	-19.9

NOTE: A - API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

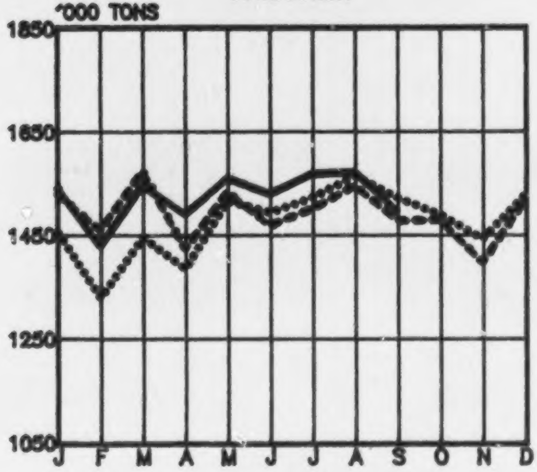
EXPORTS TO CANADA

	YEAR 1988 Tons	YEAR 1988 ($000's)	JULY 1989 Tons	JULY 1989 ($000)	AUGUST 1989 Tons	AUGUST 1989 ($000)	Annual Rate Y-T-D 1989 Tons	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	14,180	836	6,386	79	11,409	218	55,632	200.5
Pulpwood chips	33,040	1,739	3,887	177	7,060	332	33,501	-22.4
Wood Pulp, Total	280,074	101,214	13,303	6,207	47,201	18,049	341,152	27.8
Cotton Pulp & Other Pulp	84,891	24,062	291	199	399	242	6,237	-92.3
Waste Paper	331,999	38,199	20,883	3,180	27,704	3,987	310,056	-7.5
Paper, Board & Products, Total	1,050,117	715,960	78,707	58,444	107,092	71,307	1,037,590	-5.9
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	773,973	464,416	58,026	38,589	73,997	47,046	723,579	-11.6
Paper, Paperboard & Products	1,013,157	699,127	77,628	58,029	104,940	70,575	1,017,602	-4.8
Paper & Paperboard, Only	737,013	447,583	56,946	38,173	71,846	46,315	703,590	-10.3
Paper, Total	340,156	293,175	27,460	26,587	36,227	31,615	357,789	2.0
Newsprint	5,806	5,304	659	537	1,616	1,192	8,967	118.6
Printing, Writing & Rel. Pap.	166,667	160,007	17,460	17,865	20,923	20,647	220,644	26.9
Pack. & Ind. Conv. Paper	41,718	29,572	4,734	2,390	6,690	2,525	55,396	41.2
Special Industrial Paper	118,806	90,276	3,991	4,834	6,104	6,292	65,737	-48.3
Tissue Paper	7,160	8,016	616	961	895	959	7,046	8.8
Paperboard, Total	396,857	154,408	29,486	11,587	35,619	14,700	345,802	-20.3
Convtd Paper&Paperbd Products	276,145	251,544	20,681	19,855	33,095	24,261	314,011	10.6
Wet Machine Board	6,527	2,590	306	122	21	8	2,184	-69.5
Construction Paper & Board	30,433	14,243	774	294	2,131	724	17,805	-34.3

SOURCE: Bureau of Census, Department of Commerce . E - Estimate of tonnage based on square foot data 19-Oct-89

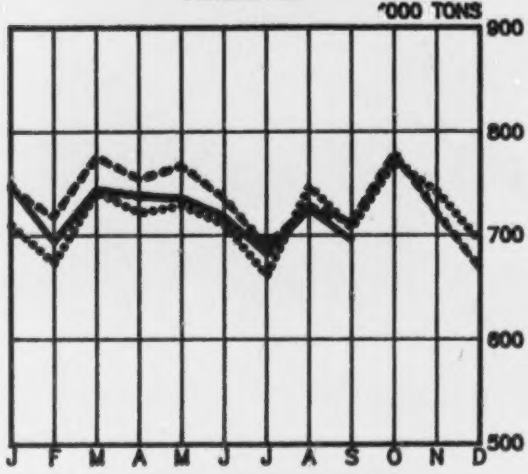
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



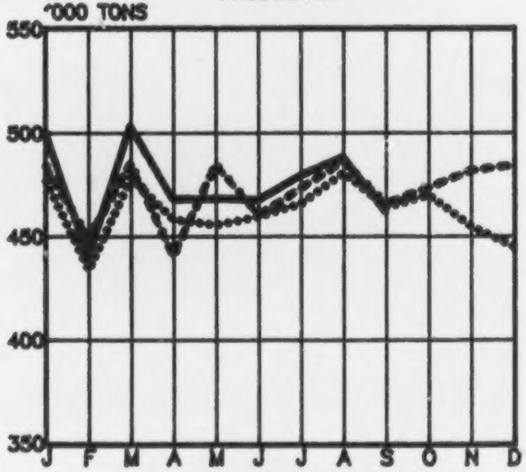
RECYCLED PAPERBOARD

PRODUCTION



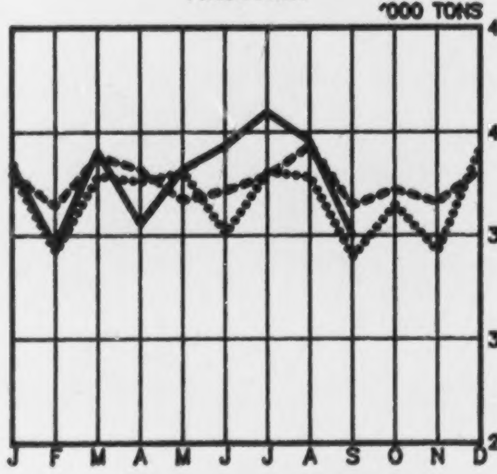
SEMICHEMICAL PAPERBOARD

PRODUCTION



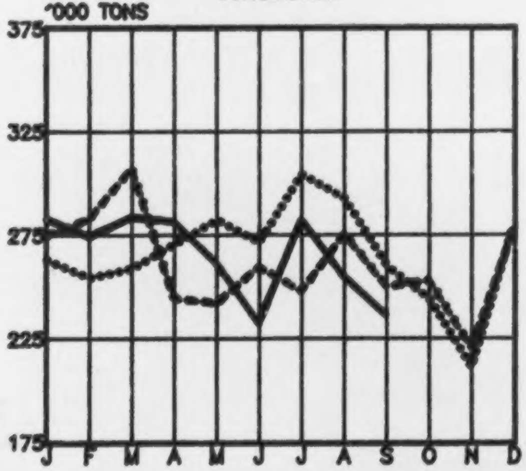
SOLID BLEACHED PAPERBOARD

PRODUCTION



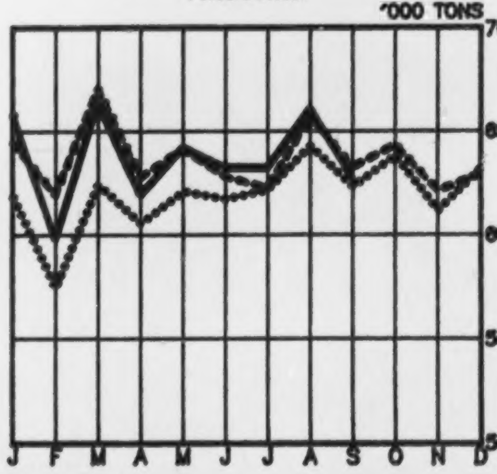
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1987 ●●●●●●●● 1988 ━ ━ ━ ━ 1989 ━━━━

PULP PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR 1988 Tons	1988 $000	1989 JULY Tons	1989 JULY $000	1989 AUGUST Tons	1989 AUGUST $000	(1) Annual Rate YTD 1989 Tons	% Change from same Period Last Year
* * * *	*	*	*	*	*	*	*	*
Pulpwood Roundwood (cords)	39,515	4,200	422	24	20,495	326	116,673.	186.2
Pulpwood Chips	888,636	35,553	38,930	1,162	75,004	2,593	884,521	3.4
Total All Imports A	18,402,259	10,725,164	1,300,007	829,624	1,711,680	1,070,874	18,292,974	-1.0
Wood Pulp Total A	5,038,158	2,663,424	357,635	220,700	471,208	285,005	5,023,474	-1.0
Waste Paper	161,367	27,361	13,850	1,675	12,367	1,900	185,527	11.4
Other Fibrous Materials	92,505	32,331	1,025	893	906	283	14,078	-85.2
Paper Board & Products Total A	13,110,229	8,002,047	927,496	606,356	1,227,199	783,686	13,069,895	-0.6
Paper Paperboard Wet Machine Bd. & Construction Paper & Board A	12,679,974	6,989,006	891,001	522,202	1,178,769	680,489	12,518,043	-1.7
Papor Ppbd & Prds ex Cnst&WMB A	12,787,784	7,893,637	915,686	603,062	1,210,479	779,038	12,863,838	0.2
Paper & Paperboard Only A	12,357,530	6,880,596	879,190	518,908	1,162,048	675,841	12,311,986	-0.9
Paper Total A	12,016,519	6,749,882	837,629	494,505	1,105,960	647,117	11,759,883	-2.6
Newsprint A	8,801,503	4,569,853	592,123	305,033	787,106	403,251	8,211,806	-7.2
Printing & Writing A	2,812,259	1,899,745	210,116	151,122	268,710	191,449	3,043,457	8.0
Uncoated Groundwood	1,362,642	792,881	114,832	70,725	126,982	78,348	1,578,200	11.5
Coated Print.& Impreg. Pap. A	797,765	641,466	52,578	43,553	76,211	59,826	756,268	-3.8
Uncoated Free Sheet A	591,830	414,326	35,775	28,923	57,627	43,981	584,148	5.1
Uncoated Book A	258,146	175,746	N.L.R.	N.L.R.	N.L.R.	N.L.R.	N.L.R.	N.L.R.
Writing and Similar Paper A	333,683	238,580	35,775	28,923	57,627	43,981	584,148	85.7
Thin (except Cigarette)	55,774	48,804	3,635	4,273	3,975	4,320	67,041	16.7
Bristols	4,247	2,269	3,296	3,648	3,915	4,973	57,800	1586.6
Total Pkg & Other Paper	343,196	231,796	25,646	28,915	39,171	42,220	387,072	12.7
Unbleached Kraft Paper	161,708	76,116	15,038	7,352	22,691	11,430	230,470	36.3
Other Pkg. & Indust. Paper	181,488	155,680	10,608	21,563	16,480	30,790	156,602	-10.2
Tissue	59,561	48,488	9,744	9,436	10,973	10,197	117,548	78.2
Paperboard, Total	341,011	130,714	41,561	24,403	56,088	28,724	552,104	61.2
Test or Containerboard	85,682	36,145	8,227	3,167	11,189	4,303	87,290	11.1
Semi-Chemical Corrugating	142,490	43,596	9,967	3,026	9,530	2,867	128,690	-14.2
Other Paperboard	112,839	50,972	23,367	18,210	35,369	21,554	336,123	194.9
Convtd Paper&Paperbd Products	430,255	1,013,041	36,496	84,154	48,431	103,197	551,852	32.3
Paper Products, Total	393,089	944,974	28,612	69,272	40,468	86,115	454,807	19.7
Paperboard Products, Total	37,166	68,067	7,884	14,882	7,962	17,082	97,045	160.7
Wet machine Board	4,239	3,780	44	31	45	44	577	-86.5
Construction Paper & Board	318,206	104,630	11,766	3,263	16,676	4,605	205,480	-32.3
Notes								
Other: No Weight Avail. ($000)		177,686		15,052		13,411	134,829	-24.4
Total Imports Incl. Other($000)		10,902,850		844,676		1,084,285	11,474,281	6.4

NOTE: A - API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

EXPORTS

							(1)	
Pulpwood, Roundwood (cords)	15,470	894	13,010	241	19,801	322	145,047	630.1
Pulpwood Chips	3,503,100	286,191	389,661	35,617	377,430	33,665	4,448,809	39.4
Total All Exports	17,061,208	7,467,363	1,569,009	732,071	1,634,569	750,374	19,010,683	13.3
Wood Pulp,Total	5,528,292	2,914,521	539,878	323,685	533,551	309,827	6,375,489	18.1
Cotton Pulp and Other Pulp	201,567	111,923	7,767	6,641	9,027	7,510	118,682	-41.3
Waste and Old Paper	5,640,118	688,258	532,988	62,917	529,215	63,945	6,183,791	12.5
Paper, Board & Products,Total	5,691,231	3,752,661	488,376	338,828	562,777	369,093	6,332,721	11.5
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	4,876,563	2,701,405	411,803	235,690	472,945	255,061	5,284,650	8.8
Paper, Ppbd & Prod ex Cnst&WMB	5,559,356	3,683,601	485,796	337,750	559,642	367,892	6,296,633	13.6
Paper & Paperboard, Only	4,744,688	2,632,346	409,223	234,613	469,810	253,860	5,248,562	11.2
Paper, Total	1,102,490	988,031	127,581	102,846	131,676	101,667	1,495,051	43.0
Newsprint	427,296	295,474	61,492	32,449	61,523	31,440	650,836	79.3
Printing & Writing	287,208	313,047	38,680	39,382	40,514	39,183	476,502	66.4
Uncoated Groundwood	70,286	58,639	6,449	5,277	7,862	5,882	92,500	42.3
Clay Coated Paper	97,464	79,731	12,879	9,307	13,761	10,642	163,190	58.0
Uncoated Free Sheet	82,660	124,049	8,301	11,812	8,970	11,645	92,762	11.5
Other Printing & Writing	36,799	50,629	11,051	12,986	9,922	11,013	128,050	267.2
Total Pkg. & Other Paper	346,718	342,117	25,874	28,515	28,110	29,124	345,538	-0.5
Unbleached Kraft	110,075	54,975	9,667	4,238	11,354	4,856	119,330	18.6
Other Pkg. & Indust. Paper	236,643	287,142	16,207	24,277	16,756	24,268	226,208	-8.3
Tissue	41,268	37,393	1,535	2,501	1,530	1,920	22,175	-54.5
Paperboard, Total	3,642,198	1,644,314	281,641	131,766	338,133	152,194	3,753,511	2.1
Solid Wood Pulp	3,359,078	1,511,057	266,658	124,749	324,227	145,363	3,569,009	5.6
Total Linerboard	2,281,362	887,846	186,236	70,865	237,400	85,943	2,524,390	10.8
Bleached Kraft Linerboard	140,801	73,728	22,100	9,900	36,644	15,426	278,948	111.1
Unbleached Kraft Linerbd	2,140,562	814,119	164,136	60,965	200,755	70,517	2,245,442	4.6
Other Unbleached Kraft	292,437	102,638	21,539	8,930	17,116	8,053	240,572	-27.3
Other Bleached Kraft	742,918	502,513	57,809	44,367	66,745	49,713	776,152	7.2
Semi-Chemical Corrugating	42,360	18,060	1,075	587	2,966	1,654	27,896	-41.9
Recycled Paperboard	283,121	133,257	14,984	7,017	13,907	6,831	184,502	-37.5
Convtd Paper&Paperbd Products	814,668	1,051,256	76,573	103,138	89,832	114,031	1,048,072	27.8
Paper Products, Total	367,548	682,281	35,618	68,677	41,341	73,574	476,727	32.4
Paperboard Products, Total	447,121	368,975	40,955	34,460	48,491	40,457	571,344	24.2
Wet Machine Board	11,691	4,915	447	190	53	48	3,300	-72.9
Construction Paper & Board E	120,184	64,145	2,133	887	3,082	1,153	32,789	-73.4
Notes								
Other: No Weight Avail. ($000)		9,170		2,394		2,026	23,017	152.4
Total Exports Incl. Other($000)		7,476,533		734,465		752,400	8,761,770	19.8

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description. N.L.R. - No longer reported.

PRODUCER PRICE INDEXES

1982 = 100

	1987	1988	JUNE 1989	JULY 1989	AUGUST 1989	SEPTEMBER 1989	Annual Rate Y-T-D 1989	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	114.3	124.8	133.1	132.8	132.9	132.9	132.2	6.9
Pulp Paper & Products, ex. Building Grades & ex Waste Paper *	113.2	123.8	132.7	132.4	132.5	132.4	131.7	7.5
Total Wood Pulp	111.5	136.7	158.3	159.4	159.5	159.5	156.4	16.7
Total Paper	111.5	123.2	131.0	130.3	129.6	129.1	130.1	6.8
Total Paper, exc. Newsprint	110.6	123.4	132.3	131.2	130.1	129.9	131.1	7.9
Newsprint	112.3	127.6	123.4	123.6	122.6	120.1	124.3	-2.7
Total Paperboard	118.1	133.2	141.3	140.2	140.3	140.3	140.4	6.3
Total Paper and Paperboard *	113.6	126.4	134.2	133.4	133.0	132.6	133.4	6.7
Converted Products	114.7	123.0	131.9	132.0	132.2	132.4	130.9	7.5
Waste Paper	181.4	183.6	157.7	155.3	157.3	160.1	158.1	-16.1
All Commodities	102.8	106.9	112.8	112.7	112.0	112.3	112.0	5.3
Industrial Commodities	102.6	106.3	112.3	112.2	111.4	111.9	111.4	5.2

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

1987 CENSUS OF MANUFACTURERS DATA

		ALL EMPLOYEES		PRODUCTION WORKERS							
		Number (000)	Payroll ($Million)	Number (000)	Hours (Million)	Wages	Value Added By Manufacturer	Cost of Material	Value Of Industry Shipment	Capital Expenditures	End-of-Year Inventories
						(Million Dollars)					
26	PAPER AND ALLIED PRODUCTS	611.3	16,827.4	466.5	975.4	11,768.7	49,752.5	58,787.5	108,271.7	5,904.4	11,076.0
2611	Pulp Mills	14.2	536.3	11.1	24.0	397.4	2,246.0	1,954.9	4,213.9	358.4	408.0
2621	Paper Mills, exc. Bldg. Paper	129.2	4,586.6	99.2	210.8	3,394.0	13,686.6	15,161.4	28,885.3	2,762.0	2,740.9
2631	Paperboard Mills	53.6	1,895.9	41.1	90.7	1,406.0	7,001.7	6,980.2	13,957.3	794.9	860.2
265	Paperboard Containers & Boxes	194.3	4,631.1	148.4	305.6	3,069.0	9,867.2	16,143.7	25,903.4	827.0	2,988.4
2652	Setup Paperboard Boxes	8.6	130.1	7.2	13.8	87.7	234.5	201.2	433.5	10.3	50.4
2653	Corrugated & Solid Fiber Boxes	105.9	2,608.2	77.4	160.6	1,637.7	5,471.0	10,666.1	16,073.0	468.2	1,535.3
2655	Fiber Cans, Drum, Similar Prod.	12.4	278.4	10.1	20.6	203.1	623.2	894.0	1,517.3	70.9	161.5
2656	Sanitary Food Containers	16.9	361.8	13.9	27.2	272.7	959.1	1,248.2	2,192.7	97.3	340.9
2657	Folding Paperboard Boxes	50.5	1,252.6	39.8	83.4	867.8	2,579.4	3,134.2	5,686.9	180.3	900.3
267	Misc. Converted Paper/Plastic Prods.	220.0	5,177.5	166.7	344.3	3,502.3	16,951.0	18,547.3	35,311.8	1,162.1	4,078.5
2671	Paper Coated & Laminated, Packaging	15.2	412.2	10.6	22.6	258.9	1,006.4	1,450.5	2,433.1	129.3	356.8
2672	Paper Coated & Laminated, N.E.C.	26.9	722.4	18.5	39.3	433.6	2,310.7	2,603.9	4,900.8	166.4	596.7
2673	Bags: Plastics, Laminated, & Coated	37.1	796.3	29.4	61.0	549.7	2,240.7	2,453.7	4,685.1	199.5	600.5
2674	Bags: Uncoated paper & Multiwall	17.1	346.4	14.3	29.0	263.9	869.0	1,585.1	2,438.8	45.7	325.2
2675	Die Cut Paper & Board	15.5	304.0	12.3	24.7	201.7	664.6	1,081.7	1,739.2	29.4	215.2
2676	Sanitary Paper Products	38.1	1,143.8	29.5	61.8	851.5	6,267.9	5,436.8	11,593.0	429.0	807.4
2677	Envelopes	27.9	615.5	21.2	44.0	408.9	1,203.1	1,416.2	2,620.5	61.8	306.2
2678	Stationery Products	11.5	211.4	8.6	16.6	138.4	530.3	694.6	1,229.2	25.4	257.7
2679	Converted Paper Products	30.7	625.5	22.3	45.3	395.7	1,858.3	1,824.8	3,672.1	75.6	612.8

Source: Census of Manufactures, 1987, U.S. Bureau of the Census this time last year, consistent with the observed decline in printing and writing paper shipments.

Production of chemical paper grade market wood pulp was slightly above shipments in September and producers' month-end inventories returned to the higher levels observed in January and February of 18 days of supply. Consumers of chemical paper grade marked pulp raised their mill inventories to 40 days of supply at the end of August, staying in the range evident since the beginning of the year.

SALES AND EARNINGS

The table below presents total sales and earnings data for 27 paper and allied products companies and four forest products companies with paper industry capacity as reported in the press for the first three quarters of 1988 and 1989, together with ratios showing the change from year-ago periods and net profits to sales. Although third quarter 1989 after-tax profits declined from its year-ago level, the trend has been essentially flat at a historically high level throughout 1989, as have the ratios of net profits after taxes to sales.

Paper and Allied Products Companies

Sales and Earnings

	Sales			Net Profit After Taxes			Net Profits/Sales	
	1989	1988	89/88	1989	1988	89/88	1989	1988
	(Thousand Dollars)		%	(Thousand Dollars)		%	%	%
		27	Paper and Allied Products Companies					
First Quarter	17,586,721	15,808,482	11.2	1,421,703	1,193,498	19.1	8.08	7.55
Second Quarter	18,654,792	16,346,683	14.1	1,419,807	1,342,113	5.8	7.61	8.21
Third Quarter	18,373,188	16,773,686	9.5	1,445,133	1,570,131	-8.0	7.87	9.36
Year-to-date	54,614,701	48,928,851	11.6	4,286,643	4,105,742	4.4	7.85	8.39
			4	Forest Product Companies				
First Quarter	5,382,803	4,781,531	12.6	351,437	256,957	36.8	6.53	5.37
Second Quarter	5,971,615	5,463,237	9.3	386,418	314,540	22.9	6.47	5.76
Third Quarter	5,892,583	4,967,155	18.6	409,560	304,091	34.7	6.95	6.12
Year-to-date	17,247,001	15,211,923	13.4	1,147,415	875,588	31.0	6.65	5.76

PAPER INDUSTRY DATA FROM THE 1987 CENSUS OF MANUFACTURERS

The U.S. Department of Commerce recently released preliminary data from its 1987 Census of Manufacturers. The new Census report incorporates several revisions in the classification of various segments of the Paper and Allied Products Industry Group. The most significant of these revisions was the elimination of the building paper and board category, which was previously classified as SIC 2661. Insulation board was shifted to the Lumber and Wood Products Industry Group (SIC 24), while construction paper is now classified under paper mills (SIC 2621).

There have also been some important changes in the way converted products are categorized. In particular, the 1987 Census of Manufacturers divides bags into two categories: plastic bags are now classified under SIC 2673 and paper bags under SIC 2674. As a result of these changes, the old SIC Code 264 (Miscellaneous Converted Paper Products) has been changed to SIC 267 (Converted Paper and Paperboard Products, except containers and boxes). These changes, which have been made in consultation with the government and industry officials involved in the paper industry including API representatives, reflect the current structure of the paper and allied products industry.

The table on page 10 summarizes some of the key paper and allied products statistics contained in the 1987 Census of Manufacturers. Specific data shown for each industry include employment, payroll, shipments, costs of materials, capital expenditures, and end-of-year inventories. Note that these data have been compiled on a mill basis. In those cases where a mill makes more than a single product, all data for the mill have been classified under the SIC code that accords with the mill's principal product. However, most mills in the paper and allied products industry tend to specialize in closely-related products that are typically covered by the same four-digit SIC code.

The table on page 10 indicates that the paper and allied products industry employed 611,300 people in 1987. However only about one-third of those were employed in the primary sector of the industry (i.e., pulp, paper, and paperboard mills), with the remainder employed in the converting sector. The primary sector of the industry accounted for 44% of the value of shipments and 66% new capital expenditures by the Paper and Allied Products Industry in 1987. The higher share of capital spending accounted for by pulp, paper, and paperboard mills confirms the well known fact that the primary sector of the industry is highly capital intensive. It is also interesting to note that value added by the paper and allied products industry (basically industry shipments minus the cost of purchased materials) amounted to 1.1% of gross national product in 1987; the GNP is the total of the value added by each industry in the nation.

Other detailed data included in the actual Census Bureau report include industry shipments by five digit SIC code, materials consumed by kind, and mill population counts. According to this report, the number of operational pulp, paper and paperboard mills in the U.S. declined from 564 in 1982 to 518 in 1987.

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

October 30, 1989

	PRODUCTION (000 TONS)					
*	(P)	*	*	*	*	% CHANGE
	SEPTEMBER 1989	AUGUST 1989	SEPTEMBER 1988	FIRST 9 MONTHS 1989	1988	YR TO DATE 1989/1988
PAPER GRADES						
Newsprint	517	510	492	4,514	4,470	1.0
Printing & Writing	1,775	1,882	1,826	16,079	16,407	-2.0
Uncoated Groundwood (s)	152	151	143	1,321	1,217	8.5
Coated Paper (s)	611	651	605	5,332	5,559	-4.1
Uncoated Free Sheet Paper (s)	885	952	953	8,282	8,488	-2.4
Thin Paper (s)	16	16	16	147	160	-8.0
Cotton Fiber Paper (s)	13	12	13	119	124	-3.7
Bleached Bristols (s)	98	100	96	880	860	2.3
Tissue Paper	473	484	458	4,214	4,105	2.6
Total Pkg & Other Paper	408	426	427	3,661	3,785	-3.3
Unbl. Kraft Paper (s)	210	227	238	1,986	2,102	-5.5
Other Paper	197	199	188	1,675	1,683	-0.5
TOTAL PAPER	3,172	3,302	3,202	28,468	28,767	-1.0
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,596	1,701	1,584	14,727	14,454	1.9
Unbleached Kraft Linerboard	1,495	1,572	1,477	13,726	13,507	1.6
Other Unbl. Kraft Paperboard	101	129	107	1,001	948	5.7
Semichemical Paperboard	461	488	466	4,275	4,225	1.2
Bleached Paperboard	351	396	364	3,408	3,391	0.5
Recycled Paperboard	695	725	712	6,479	6,622	-2.2
TOTAL PAPERBOARD	3,103	3,311	3,126	28,889	28,692	0.7
TOTAL PAPER AND PAPERBOARD	6,275	6,612	6,328	57,357	57,459	-0.2

WOOD PULP (ALL GRADES)	AUGUST 1989	JULY 1989	AUGUST 1988	FIRST 8 MONTHS 1989	1988	% Change 89/88
Dissolving & Special Alpha	108	144	119	941	895	5.1
Bleached Sulfite) Unbleached Sulfite)	136	131	132	1,046	1,030	1.6
Bleached & Semi-Bl. Sulfate	2,359	2,352	2,299	18,269	17,535	4.2
Unbleached Sulfate	1,827	1,894	1,840	14,529	14,474	0.4
Semichemical	361	368	371	2,924	2,894	1.0
Groundwood & Thermomechanical	511	510	504	3,969	3,983	-0.3
TOTAL PULP DIVISION DATA	5,303	5,399	5,265	41,679	40,810	2.1

(s) - Shipments
P - Preliminary

October 31, 1989

	Full Year		INDUSTRY DATA 1988 - 1989	R	P	Ann. Rate Year - To - Date	% From Same Pd. Last Year
PAPER AND PAPERBOARD -- Tons (000)	1987	1988	July	August	September	1989	
Total Production (API).......: excluding :...	74,317	76,403	6,327	6,612	6,275	76,477	-0.2
Total Seasonally Adjusted....:construction:...			6,403	6,355	6,289	76,430	-0.1
Imports (including Products).: and wet :..E	12,528	12,788	916	1,210	1,075	12,868	-0.2
Exports (including Products).: machine :..E	5,197	5,559	486	560	540	6,317	12.7
Apparent Consumption.........: grades :...	81,648 a	83,631 b	6,833	7,006	6,824	83,027 c	-0.9
Paper Production % Tonnage Capacity...........	94.4 g	95.3	87.5	93.2	92.5	92.4	-
Paperboard Production % Tonnage Capacity......	95.7 g	95.0	93.7	94.3	91.1	94.2	-
			June	July	August		
IMPORTS.....:Including Construction and :...	12,837	13,110	1,061	927	1,227	13,070	-0.6
EXPORTS.....: WMB Grades (excl. HPB) :...	5,304	5,691	507	488	563	6,333	11.5
MARKET WOOD PULP PRODUCTION - Tons (000)........	8,114	8,565	739	761	757	8,896	3.8
TOTAL WOOD PULP PRODUCTION - Tons (000).........	59,552	61,161	5,102	5,399	5,303	62,518	2.1
WOOD PULP IMPORTS - TONS (000)..................	4,850	5,038	389	358	471	5,023	-1.0
WOOD PULP EXPORTS - TONS (000)..................	4,889	5,528	562	540	534	6,375	18.1
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS : excluding :			June	July	August		
Wood Pulp............:consumption for:.....	59,475	60,847	4,985	5,207	5,241	61,586	1.1
Waste Paper..........:construction & :.....	17,993	18,860	1,591	1,579	1,650	19,039	0.8
TOTAL.........: WMB grades :.....	77,468	79,707	6,576	6,786	6,891	80,625	1.0
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	93,946	95,497	8,348	8,548	8,498	98,865	3.7
EMPLOYMENT (000)			July	August	September		
Paper and Allied Products..........Total......	680.1	692.6	702.6	704.0	698.9	696.9	0.8
Pulp, Paper and Board Mills........Total.....E	244.9	245.5	251.0	251.2	247.2	247.2	0.5
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			July	August	September		
Paper and Allied Products......................	11.43	11.66	12.04	11.90	11.99	11.89	2.2
Pulp, Paper Mills.........................E	14.01	14.31	14.88	14.64	14.80	14.63	2.7
Paperboard Mills..........................E	14.30	14.49	14.82	14.76	15.01	14.66	1.5
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1989 Q1	1989 Q2	1989 Q3		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	9.01	11.36	14.39	14.87	16.03	15.50 Y	36.4
INDEX OF OUTPUT PER MAN-HOUR (1977=100)..........			July	August	September		
:IN PULP, PAPER :...Production Workers..........	145.0	148.7	149.5	148.5	146.7	149.6	0.4
:AND BOARD MILLS:...All Employees...............	141.8	146.1	145.9	144.7	143.5	146.1	-0.2
PAPER AND ALLIED PRODUCTS (Million $)			June	July	August		
Industry Shipments (Dept. of Commerce)*........	118,855	127,718	10,906	10,846	10,872	130,631	2.7
Pulp, Paper and Paperboard*..................	51,518	57,177	4,886	4,870	4,801	58,430	2.4
Inventories (End of Period) - Total Industry*..	11,284	12,065	12,320	12,483	12,585	12,585	8.1
Pulp, Paper and Paperboard*..................	4,266	4,325	4,724	4,804	4,863	4,863	18.1
			1988 Q4	1989 Q1	1989 Q2		
Sales (Corporations Only)......................	95,576	107,221 RS	26,990	27,281	28,534	111,630	5.6
Earnings (Corporations Only)...................	5,520	8,081 RS	1,911	1,979	2,022	8,002	1.5
Depreciation (Corporations Only)...............	4,279	4,625 RS	1,167	1,187	1,231	4,836	5.4
Net Worth (Corporations Only)..................	39,217	42,940 RS	42,940	44,093	45,242	45,242	8.6
PRICE INDEXES (Bureau of Labor Stats)1982=100			July	August	September		
Pulp, Paper & Products, ex. Building Grades....	114.3	124.7	132.8	132.9	132.9	132.2	7.0
Wood Pulp......................................	111.6	136.7	159.4	159.5	159.5	156.4	16.8
Waste Paper....................................	181.4	183.5	155.3	157.3	160.1	158.1	-16.0
Paper..	111.5	123.2	130.3	129.6	129.1	130.1	6.9
Paperboard.....................................	118.1	133.2	140.2	140.3	140.3	140.4	6.3
PAPER DEMAND (INDEXED: 1977=100)			July	August	September		
Total Paper Production *.......................	133.4	138.2	136.5	137.4	136.7	137.0	-1.0
Paper New Supply *.............................	140.2	144.3	135.5	145.8	140.5	141.1	-2.5
Demand Indicators - (Weighted Average) *.....	154.5	163.7	175.2	175.7	176.1	174.2	7.2
Production of Nondurable Goods *...(21.2%).	136.8	143.9	150.9	151.1	151.3	149.8	4.8
Disposable Income ....*.(23.9%)	130.0	134.9	141.1	141.6	141.5	140.2	4.4
Total Printing and Publishing *...(54.9%).	172.0	183.8	199.4	200.0	200.8	198.4	8.8
Trend Factor	----------	----------	------- Not	Available	--------	----------	----------
PAPERBOARD DEMAND (INDEXED: 1977=100)							
Total Paperboard Production *.................	129.2	131.6	134.8	131.9	129.9	132.9	0.7
Production for Domestic Use	126.1	129.0	131.4	129.6	128.2	130.2	0.8
Demand Indicators - (Weighted Average) *.....	125.9	132.5	137.0	137.4	137.4	137.0	4.2
Production of Consumer Goods *...(62.06%)	127.7	133.9	138.9	139.3	139.5	139.1	4.7
Production of Equipment *...(5.75%)	148.8	158.2	165.7	166.5	166.5	164.4	4.4
Production of Materials *...(32.19%)	118.3	125.3	128.3	128.6	128.2	128.0	2.9
Trend Factor	----------	----------	------- Not	Available	--------	----------	----------
NEWSPRINT MARKETS			June	July	August		
Consumption by Publishers - Tons (000).........	13,583	13,597	1,089	1,053	1,111	13,229	-0.3
Newspaper Pub. and Printing Empl. Total(000)...	471	475	479	477	477	477	0.6
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (PIB, Inc.)...........	164,771	170,717	14,245	10,492	11,116	163,292	3.7
WHOLESALERS SALES AND INVENTORIES (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	44,741	52,377	4,802	4,507	5,254	55,881	9.3
Inventories (End of Period).	3,850	4,436	4,501	4,647	4,582	4,582	8.9
FIBRE BOX DATA (Fibre Box Association)			July	August	September		
Fibre Box Shipments (Million square feet).......	297,827	308,507	24,583	27,718	25,354	313,192	1.2
Container'bd Inventory at Mill & Plant(000Tons).	2,486	2,553	2,689	2,664	2,639	2,639	-1.3
RETAIL TRADE (Billion $)			July	August	September		
Total Retail Sales *..........................	1,511	1,612	143.6	144.5	145.2	1,705	6.8
Nondurable Goods Stores Sales *...............	950	998	88.9	88.8	89.2	1,054	6.6
GENERAL ECONOMIC DATA			July	August	September		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1977 = 100)*..	129.8	137.2	142.0	142.4	142.3	141.6	3.9
PRODUCER PRICES(ALL COMMODITIES)(INDEX 1982=100).	102.8	106.9	112.7	112.0	112.3	112.0	5.3
CONSUMER PRICES (ALL ITEMS) (INDEX 1982-4=100)...	113.6	118.3	124.4	124.6	125.0	123.3	4.9
			June	July	August		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $)..	618.2	671.4	697.3	699.0	706.9	706.9	9.1
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$)..			1989 Q1	1989 Q2	1989 Q3		
G.N.P. or Expenditure - Current $..............	4,524	4,881	5,017	5,113	5,202	5,196	7.5
G.N.P. or Expenditure - 1982 $.................	3,854	4,024	4,069	4,107	4,133	4,132	3.1

lb/capita

	Pap&Papbd		Othr		Totl	Popul(mil)
.a -	669	+	17	=	686	243.9
.b -	679	+	17	=	696	246.3
.c -	667	+	17	=	684	248.8

.E - Last month estimated by API

£ - Wood Pulp Production excludes def., explo. & scrngs.

g - Adjusted for holiday shutdowns

h - First 3 quarters, annual rate

Q - Quarter

R - Revised

Y - Full year estim. by U.S. Dept. of Com.

RS - Revised Series

* - Seasonally Adjusted.

A2500-2

Paper Paperboard & Wood Pulp

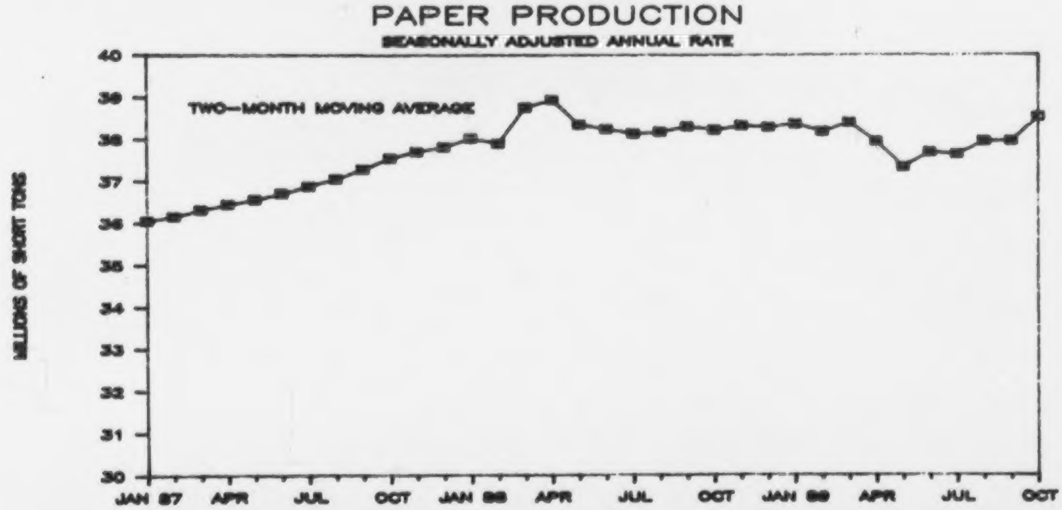
MONTHLY STATISTICAL SUMMARY - Vol. 67 No. 11 NOVEMBER 1989

PAPER AND PAPERBOARD PRODUCTION REMAINS STRONG

Production of paper and paperboard in October moved to the high side of the range it has held to since the beginning of 1988, pointing 1989 total output to last year's record high of 76.4 million tons. The strength was centered on the paper grades, which had been restrained through the first half of 1989 by reduction of white paper inventories in the hands of users. This inventory correction was completed by mid-year, and production of paper has since trended upward.

Much of this recent strength has been offset by an easing in paperboard production, which had been fairly strong in the first eight months of 1989. Partly the result of scheduled shutdowns for maintenance and repair at several mills, it is also possible that paperboard users have begun to adjust their inventories of paperboard and packaged goods, putting additional negative pressures on current production rates. To date, inventories of paperboard at mills and plants have shown little change during 1989. Containerboard inventories at mills and plants were equivalent to 4.9 weeks of supply as of the end of October 1989, compared to 5.0 weeks one year earlier.

__Paper:__ Largely completed by mid-year, inventory adjustments by white paper users were followed by a recovery in shipments of these papers from domestic mills. The October 1989 printing-writing paper shipments total of 1,916,000 tons was second only to the March 1988 spike of 1,938,000 tons.


PAPER PRODUCTION

SEASONALLY ADJUSTED ANNUAL RATE

COPYRIGHT © 1989 AMERICAN PAPER INSTITUTE 260 Madison Avenue New York, N.Y. 10016

The pattern of easing followed by recovery during the course of 1989 shows up clearly in the chart of paper production on the bottom of Page 1. This chart traces the seasonally-adjusted rate of paper production from January 1987 to October 1989 as measured by a two-month moving average. This chart also highlights the rise in production in 1987 and its stability throughout 1988.

The impact of inventory adjustments was perhaps strongest in the coated paper grades. In the first 7 months of 1989 shipments of these papers averaged 581,000 tons per month; in the subsequent three months the shipments level jumped 10% to a record-high three-month average of 638,000 tons per month. Much of this strength was centered on shipments to magazine publishers and commercial printers; the October 1989 shipments of coated papers to printers established a new monthly high. Imports of coated papers were also affected by inventory adjustments, although they held at their first half level during the third quarter. The January-September import total was down 8% from its corresponding year-ago level.

Shipments of uncoated free sheet papers also recovered from their first-half lows during the July-October period, but the year-to-date total was still 2% below its corresponding year-ago figure. With the exception of reprographics, shipments to the major markets were also down from 1988. The cut-size computer papers, currently a growth market, are included in the reprographics totals.

Uncoated groundwood papers have shown the strongest trends among the printing-writing paper grades, with the 10-month 1989 shipments total up 8% from 1988. Shipments to all their major markets were ahead of year-ago rates, with the largest gain reported in shipments to commercial printers. Imports, as reported by API's Printing-Writing Division, which account for more than half the total new supply, were down 5% from their year-ago rates. The API data are based on shipments to the United States as reported by the Canadian Pulp and Paper Association, which include some tonnage counted by the U.S. Bureau of Census as newsprint.

Among the other paper grades, newsprint and tissue papers are both reporting production rates above their corresponding 1988 levels. The year-to-date shipments for the packaging grades were down from their year-ago levels, reflecting lower totals in demand for bag and sack papers. However, shipments of these bag and sack papers in the April-October 1989 period were 1.3% ahead of their comparable 1988 figures, an encouraging sign.

Paperboard: Total paperboard production has been easing in recent months, primarily reflecting the trends in the

PAPER AND PAPERBOARD STATISTICS

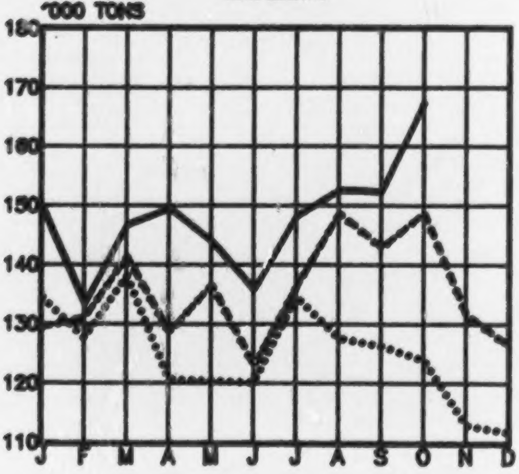
PRODUCTION SHIPMENTS AND ORDERS
(Thousands of Short Tons)

	YEAR		JULY	AUGUST	SEPTEMBER	OCTOBER	Annual Rate Y T D	% Change From same Period Last Year
	1987	1988	1989	1989	1989 (R)	1989 (P)	1989	
PAPER								
Newsprint Production	5,842	5,982	522	510	517	526	6,048	1.3
- Shipments	5,854	5,969	521	517	518	526	6,024	1.6
Printing & Writing Sum	20,778	21,793	1,695	1,884	1,772	1,916	21,580	-1.4
Groundwood Paper - Shipments	1,498	1,624	148	153	152	167	1,774	8.2
New Orders	1,542	1,654	151	168	177	151	1,805	10.5
Unfilled Orders	166	208	191	219	238	212	212	22.4
Coated Papers Shipments	6,860	7,359	572	651	610	653	7,181	-3.2
- New Orders	7,066	7,412	650	658	633	672	7,345	-2.3
- Unfilled Orders	708	751	824	849	875	884	884	16.9
Unctd Free Sheet - Shipments	10,966	11,277	852	952	885	968	11,100	-1.9
- New Orders	11,173	11,298	868	1,031	963	1,011	11,227	-0.8
- Unfilled Orders	772	790	613	713	791	816	816	10.7
Thin Papers Shipments	240	217	15	16	16	15	194	-10.0
Cotton Fiber Paper - Shipments	163	167	11	12	13	14	159	-4.1
Bleached Bristols Production	1,052	1,150	98	100	95	100	1,173	2.4
Tissue Paper - Production	5,301	5,476	458	484	473	489	5,643	2.7
Total Packaging & Other Paper	4,955	5,047	391	425	406	438	4,915	-2.6
Unbl. Kraft Paper - Shipments RS	2,840	2,800	212	227	210	239	2,670	-4.5
Other Paper Production RS	2,115	2,247	179	198	195	199	2,245	-0.2
TOTAL PAPER Production Unadj.	36,876	38,298	3,067	3,302	3,168	3,369	38,186	-0.6
Production S.A.			3,150	3,173	3,151	3,288	38,074	-0.6
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	28,859	29,316	2,577	2,585	2,408	2,477	29,864	1.6
Total Unbl. Kraft Paperboard	18,898	19,140	1,688	1,701	1,596	1,624	19,622	2.1
Unbl. Kraft Linerboard (1)	17,683	17,897	1,568	1,572	1,495	1,512	18,286	1.7
Production for Export	2,303	2,296	214	182	174	202	2,354	1.3
Other Unbl. Kraft Paperboard	1,215	1,244	119	129	101	112	1,336	7.3
Semichemical Paperboard	5,536	5,664	479	488	461	475	5,700	1.1
Production for Export	193	136	10	10	8	17	142	4.7
Solid Bleached Paperboard	4,406	4,511	410	396	351	378	4,543	0.6
Production for Export	619	628	54	59	51	64	668	6.8
Recycled Paperboard	8,601	8,789	682	725	691	759	8,681	-2.2
Production for Export	75	72	2	3	1	3	32	-57.5
TOTAL PAPERBOARD Prod -Unadj.	37,442	38,105	3,259	3,311	3,100	3,236	38,545	0.7
- Containerboard Prod.(Dom. Use)	23,025	23,563	2,024	2,075	1,966	1,970	23,878	1.1
- Boxboard Prod.(Dom. Use)	6,969	7,066	614	623	559	590	7,143	0.8
All Other P bd Prod.(D.U.)	4,262	4,344	340	358	340	389	4,328	-1.7
- Total Paperbd Prod. for Export	3,190	3,132	281	253	235	286	3,196	1.1
TOTAL PAPERBOARD PROD S.A.			3,252	3,183	3,130	3,196	38,470	0.7
TOTAL PAPER AND PAPERBOARD								
Production - Unadj.	74,318	76,403	6,326	6,613	6,267	6,605	76,732	0.1
Production - S.A.			6,402	6,356	6,281	6,484	76,544	0.1

RS - Revised Series
(1) Includes all exports of kraft paperboard. R - Revised P - Preliminary S.A. - Seasonally Adjusted

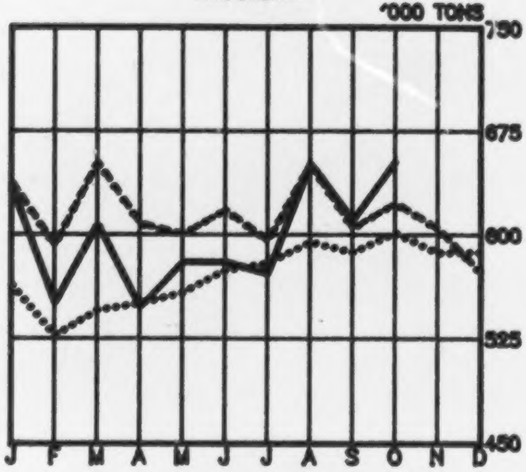
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



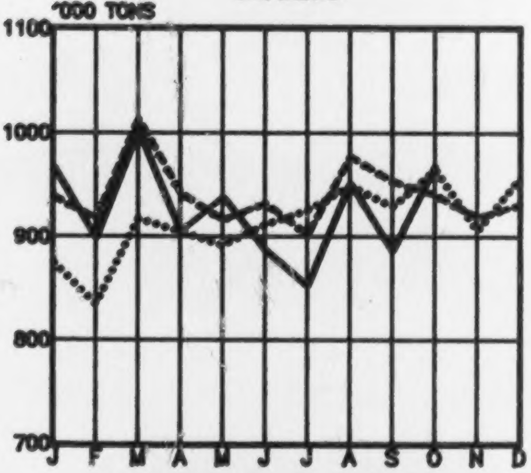
COATED PAPER

SHIPMENTS



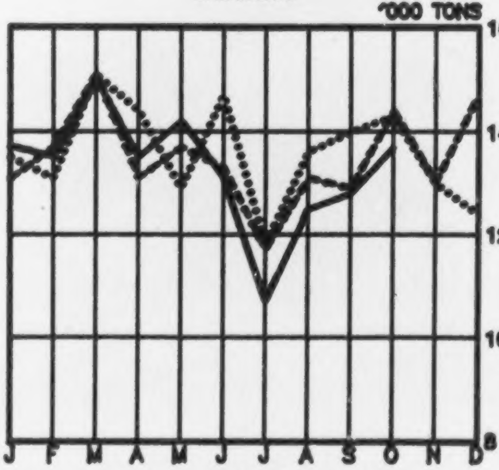
UNCOATED FREE SHEET PAPERS

SHIPMENTS



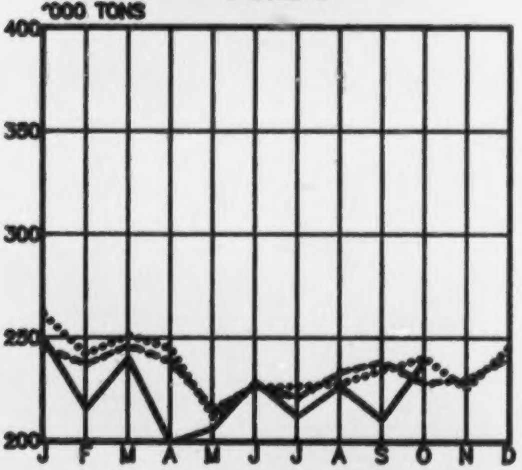
COTTON FIBER PAPER

SHIPMENTS



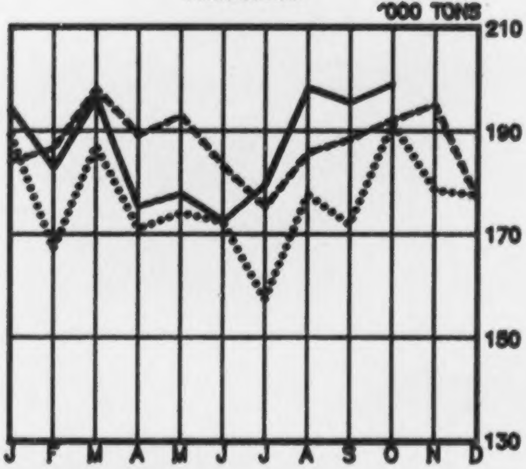
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1987 ········ 1988 ------ 1989 ———

WOOD PULP STATISTICS
(Thousands of Tons)

		YEAR 1987	1988	JUNE 1989	JULY 1989	AUGUST 1989	SEPTEMBER 1989	Annual Rate Y-T D 1989	% Change from same Period Last Year
TOTAL WOOD PULP						R	P		
Total Wood Pulp	- Production	59,552	61,161	5,102	5,399	5 301	5 070	62,328	2.0
	- Imports	4,850	5,038 A	389	358	471	428	5,037	0.4
	- Exports	4,889	5,528	562	540	534	548	6 398	16.6
	- New Supply	59,513	60,671	4,930	5,217	5,238	4,951	60,967	0.6
Dissolving Pulp	- Production	1,312	1,367	102	144	108	135	1,434	4.5
	- Imports	198	248	32	13	28	27	291	22.9
	- Exports	752	865	79	62	81	61	835	-0.5
	- New Supply	757	751	55	95	55	102	890	15.6
Paper Grades Chemical Pulp	- Production	48,293	49,493	4,167	4,377	4,322	4,069	50,550	2.2
	- Imports	4,456	4,419 A	326	328	400	365	4,414	-0.1
	- Exports	4,111	4,612	474	472	441	484	5 483	19.2
	- New Supply	48,637	49,300	4,019	4,233	4,281	3,951	49,481	0.4
Groundwood and Thermo-Mech.	- Production	5,702	5,943	480	510	511	505	5 966	0.4
	- Imports	197	371 A	31	17	43	36	331	-8.2
	- Exports	26	51	8	6	11	3	79	67.9
	- New Supply	5,872	6,263	502	521	543	538	6,218	-0.6
Semi-Chemical	- Production	4,246	4,358	353	368	359	361	4,377	0.9
	- Imports								
	- Exports								
	- New Supply	4,246	4,358	353	368	359	361	4 377	0.9
MARKET WOOD PULP									
Total Market Wood Pulp	- Production	8.114	8,565	739	761	757	719	8 867	3.2
	- Imports	3,235	3,471	267	284	261	292	3,356	-3.2
	- Exports	4,820	5,071	505	446	487	439	5 460	7.9
	- New Supply	6,529	6,966	501	599	531	572	6,763	-3.4
Dissolving Pulp	- Production	1,308	1,365	101	144	108	134	1,427	4.2
	- Imports	154	206	27	7	23	21	215	2.8
	- Exports	775	798	84	51	75	76	823	4.3
	- New Supply	687	774	45	99	56	80	819	3.7
Paper Grades Chemical Pulp	- Production	6,806	7,200	638	617	649	585	7,439	3.0
	- Imports	2,975	3,126	237	276	236	265	3,085	-0.4
	- Exports	4,045	4,273	422	395	412	363	4 636	8.5
	- New Supply	5,736	6,052	453	498	472	487	5,888	-2.7
Groundwood Pulp and All Other	- Production	0	0	0	0	0	0	0	0.0
	- Imports RS	106	139	3	2	3	5	56	-64.6
	- Exports	0	0	0	0	0	0	0	0.0
	- New Supply	106	139	3	2	3	5	56	-64.6

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.
NOTE: A - API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

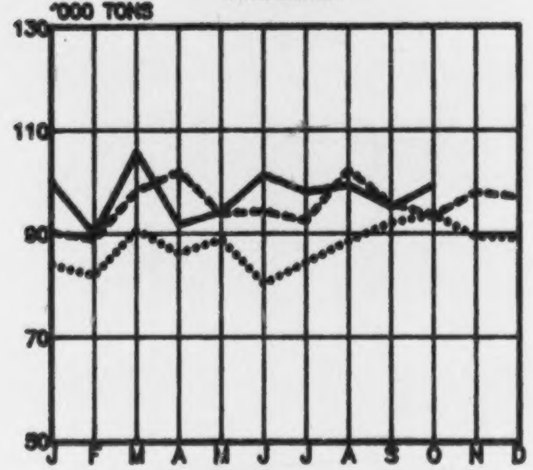
FIBROUS RAW MATERIALS
(Thousands of tons)

	YEAR 1987	1988	JUNE 1989	JULY 1989	AUGUST 1989	SEPTEMBER 1989	Annual Rate Y-T D 1989	% Change from same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	77,468	79,707	6.576	6.786	6.888	6 587	80 446	1.1
Total Wood Pulp	59,474	60,847	4,985	5,207	5,239	4,997	61,402	1.1
Waste Paper	17,993	18,860	1,591	1,579	1,649	1,590	19,043	0.9
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	170	172	164	191	193	205	205	3.4
Producers' Market Inventories	224	261	300	320	353	364	364	33.9
Consumers' Purchased Inventories #	529	622	588	573	591	590	590	-6.1
Waste Paper at Paper & Bd. Mills	902	1,029	1,037	1,007	1,053	1,028	1,028	5.4
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	12	14	15	16	17	19	19	35.7

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API. # Includes all grades of wood pulp.
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons RS - 1988 Revised Series

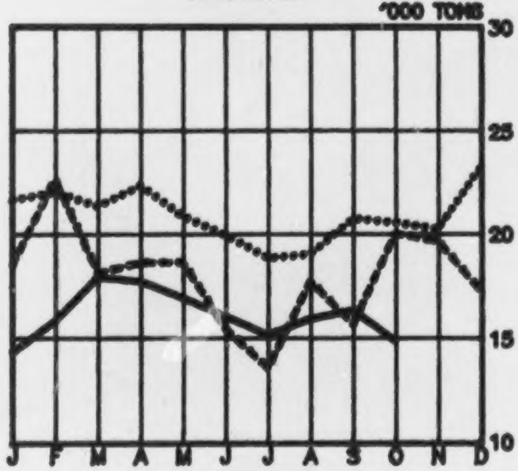
BLEACHED BRISTOLS

PRODUCTION



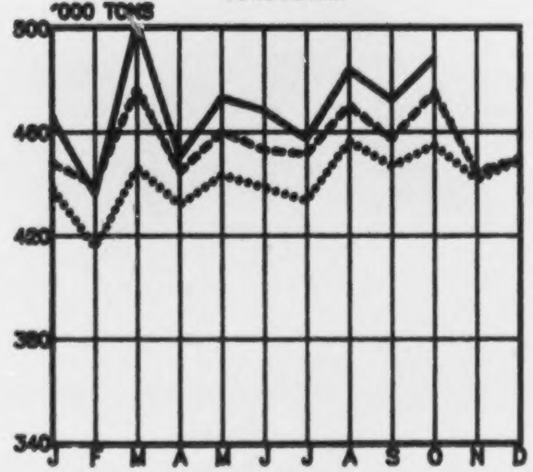
THIN PAPER

PRODUCTION



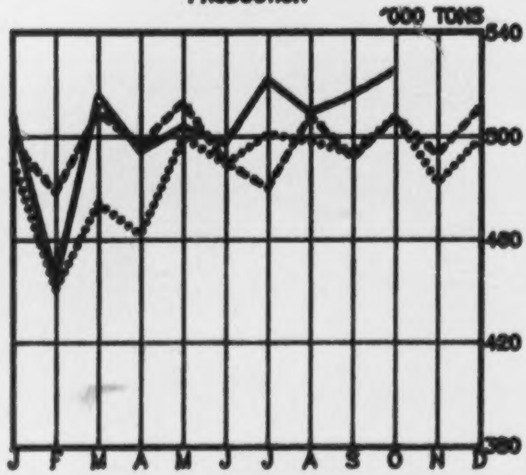
TISSUE PAPER

PRODUCTION



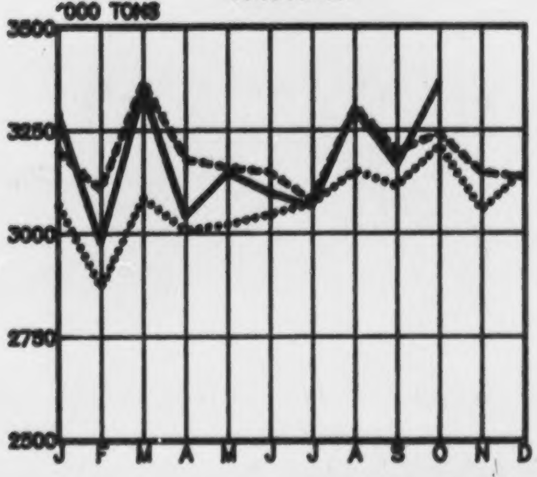
NEWSPRINT

PRODUCTION



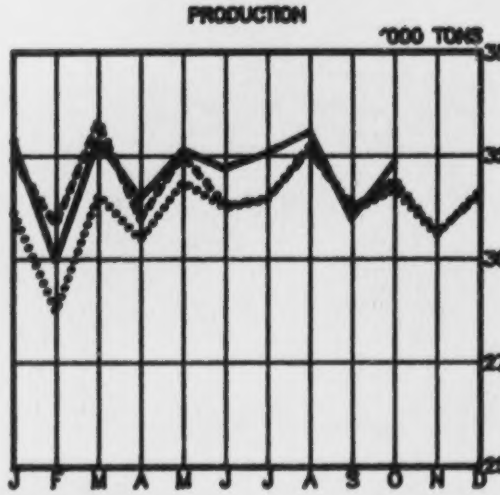
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1987 ········ 1988 - - - - - 1989 ———

FIBROUS RAW MATERIALS

(Thousands of Standard (128 cubic foot) Cords)

		YEAR 1987	YEAR 1988	JUNE 1989	JULY 1989	AUGUST 1989	SEPTEMBER 1989	Annual Rate Y T-D 1989	% Change From Same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	94,312	95.537	8 358	8.476	8,946	8 491	99,143	4.7
	- Total Consumpt	93 946	95,497	8,348	8,548	8,498	8,167	98,769	3.6
	Residues *	32,899	33,186	2,939	2,989	2 983	2 845	34 400	4.3
	- Inventories	5,096	4,888	4,343	4,191	4,415	4,891	4,891	9.1
So. Atlantic	- Total Receipts	31,147	31,582	2,616	2,719	2,778	2 804	32,131	3.1
	- Total Consumpt	30.915	31,567	2,697	2,814	2,684	2,782	32,517	3.5
	- Residues *	9,553	9 897	801	884	849	821	9,931	2.3
	- Inventories	1,211	1,200	911	811	889	956	956	-8.8
Northeast	- Total Receipts	6 941	7,187	584	590	628	585	7,201	2.4
	- Total Consumpt	7,109	7,216	549	579	598	583	7,157	-1.7
	- Residues *	1,543	1,664	126	97	146	126	1,623	-0.2
	- Inventories	594	572	441	444	453	444	444	-7.9
South Central	- Total Receipts	33,650	33,751	2,981	2,913	3,355	3,119	35,559	6.3
	- Total Consumpt	33,059	33,646	3,074	3,050	3,212	3,020	35,768	6.7
	- Residues *	9,992	9,890	850	823	936	884	10 348	5.2
	- Inventories	1,294	1,160	857	739	958	1,055	1,055	2.4
North Central	- Total Receipts	6 552	6,865	598	582	640	602	6,996	0 5
	- Total Consumpt	6,764	6,929	593	565	594	531	6,944	-0.4
	- Residues *	1,263	1,334	107	96	106	116	1,368	-1.2
	- Inventories	830	839	768	779	829	899	899	9.0
West	- Total Receipts	16,022	16,152	1,579	1,672	1,545	1,381	17,256	7.2
	- Total Consumpt	16,099	16,139	1,435	1,540	1,410	1,251	16,383	1.6
	- Residues *	10,548	10,401	1,055	1,089	946	898	11,131	6.7
	- Inventories	1,167	1,117	1,366	1,418	1,286	1,537	1,537	39.9

* - Consumption of Residues in Cord Equivalents. SOURCE American Pulpwood Association 20 Nov 89

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

		YEAR 1988 Tons	YEAR 1988 ($000 s)	AUGUST 1989 Tons	AUGUST 1989 ($000)	SEPTEMBER 1989 Tons	SEPTEMBER 1989 ($000)	Annual Rate Y-T-D 1989 Tons	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)		39,337	4,195	20,495	326	48,389	850	168,228	255.9
Pulpwood chips		876,038	35,184	74,945	2,587	69,292	2,356	861,355	0.2
Wood Pulp, Total	A	4,340,245	2,282,329	429,515	258,141	359,576	214,348	4 371,017	1.9
Waste Fibrous Materials, Total		227,004	48,450	13,104	2,025	13,368	2,450	170,845	-28.8
Paper, Board & Products, Total	A	10,497,185	5,715 612	1,053,939	590,378	897,599	493,893	10 910 754	1.3
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	A	10,348,278	5,458 084	1,038,473	559 851	882,456	466 904	10,732 990	1.0
Paper, Paperboard & Products	A	10,283,277	5,649,813	1,040,425	586,871	885,652	490,883	10,749,091	1.9
Paper & Paperboard, Only	A	10,134,369	5,392,286	1,024.960	556,343	870,510	463,895	10,571,328	1.6
Paper, Total	A	9,869,253	5,295,796	981,793	539,224	838,225	451,481	10,151,944	0.1
Newsprint	A	8.284,709	4,320,023	767,226	394,548	651,514	330,110	7.997,571	-6.3
Printing, Writing & Rel. Pap.	A	1,304,003	807,306	181,956	120,450	160,443	102,423	1,842,695	39.6
Pack. & Ind. Conv. Paper		227,493	120,765	21,312	11,941	17,625	9 903	211,454	-11.1
Special Industrial Paper		4,767	9,106	6,190	7,599	4,366	5,219	44,783	862.9
Tissue Paper		48,281	38,596	5,109	4,686	4,278	3,824	55,442	10.3
Paperboard, Total		265,116	96,490	43,167	17,119	32,284	12,414	419,384	58.9
Convtd Paper&Paperbd Products		148,908	257,528	15,466	30,528	15,142	26 988	177,763	21.8
Wet Machine Board		2,939	2,120	8	6	4	3	273	-91.1
Construction Paper & Board		210,970	63,679	13,505	3,501	11,942	3.007	161,389	-23.7

NOTE: A - API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

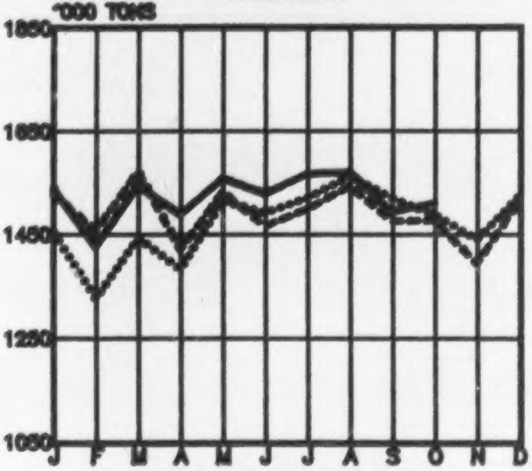
EXPORTS TO CANADA

	YEAR 1988 Tons	YEAR 1988 ($000 s)	AUGUST 1989 Tons	AUGUST 1989 ($000)	SEPTEMBER 1989 Tons	SEPTEMBER 1989 ($000)	Annual Rate Y-T-D 1989 Tons	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	14,180	836	11,409	218	22,582	280	79,560	350.4
Pulpwood chips	33,040	1,739	7,060	332	2,476	113	33,079	-18.6
Wood Pulp, Total	280,074	101,214	47,201	18 049	40,860	18 173	357,726	29.4
Cotton Pulp & Other Pulp	84,891	24,062	399	242	414	349	6,096	-92.2
Waste Paper	331,999	38 199	27,704	3,987	20,646	3,242	303 133	-10.5
Paper, Board & Products, Total	1,050,117	715.960	107,092	71,307	101,250	68,667	1,057,301	-3.7
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	771,973	464,416	73,997	47,046	68,165	43,587	734,067	-9.9
Paper, Paperboard & Products	1,013,157	699,127	104 940	70,575	98,573	67,813	1,035,965	-2.5
Paper & Paperboard, Only	737,013	447,583	71,846	46,315	65,488	42,733	712,730	-8.5
Paper, Total	340,156	293,175	36,227	31,615	32,920	29,528	361.927	3.5
Newsprint	5,806	5,304	1,616	1,192	710	413	8,917	68.8
Printing, Writing & Rel. Pap.	166,667	160,007	20,923	20,647	20,593	20,928	223,584	29.5
Pack. & Ind. Conv. Paper	41,718	29,572	6.690	2,525	6,256	2.445	57,582	42.7
Special Industrial Paper	118,806	90,276	6,104	6,292	4,595	4,918	64,559	-48.1
Tissue Paper	7,160	8,016	895	959	766	824	7,284	5.5
Paperboard, Total	396,857	154,408	35,619	14,700	32,568	13,205	350.803	-18.4
Convtd Paper&Paperbd Products	276,145	251,544	33,095	24.261	33,085	25 080	323,234	14.2
Wet Machine Board	6,527	2,590	21	8	80	30	2,048	-71.0
Construction Paper & Board	30,433	14,243	2,131	724	2,597	824	19,289	-32.0

SOURCE: Bureau of Census, Department of Commerce . E - Estimate of tonnage based on square foot data 20-Nov-89

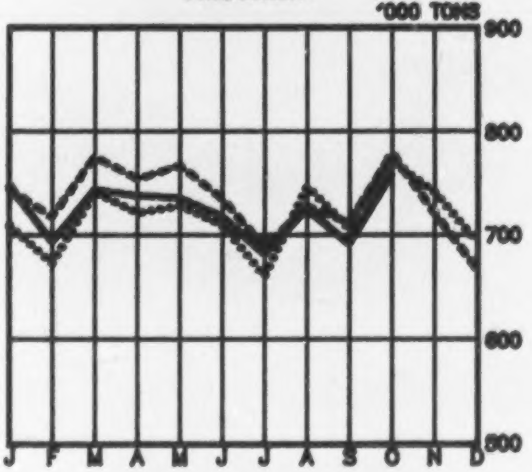
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



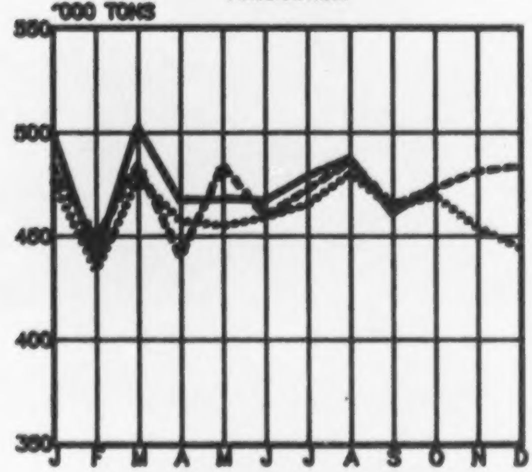
RECYCLED PAPERBOARD

PRODUCTION



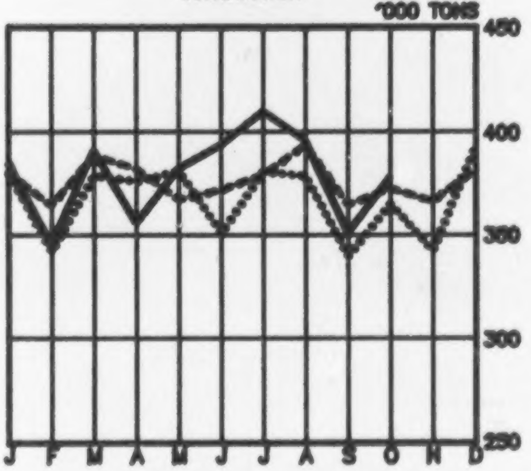
SEMICHEMICAL PAPERBOARD

PRODUCTION



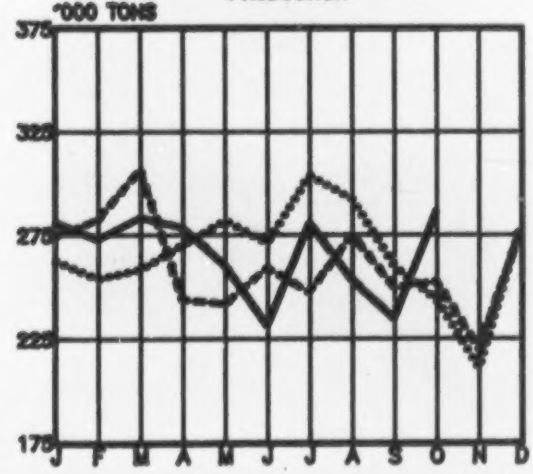
SOLID BLEACHED PAPERBOARD

PRODUCTION



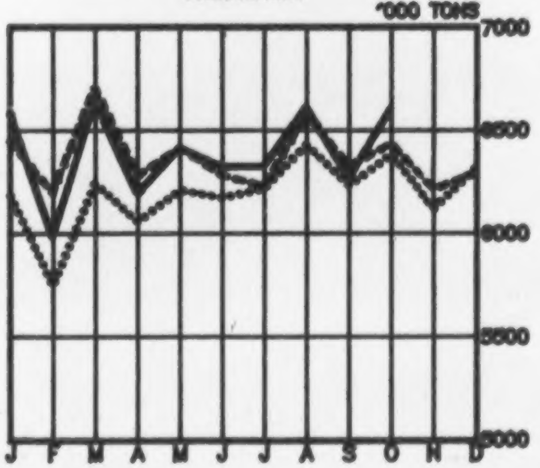
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1987 ········ 1988 — — — 1989 ———

IMPORTS

	YEAR 1988 Tons	YEAR 1988 $000	1989 AUGUST Tons	1989 AUGUST $000	1989 SEPTEMBER Tons	1989 SEPTEMBER $000	(1) Annual Rate YTD 1989 Tons	% Change from same Period Last Year
• • • •	•	•	•	• •	•	•	•	•
Pulpwood Roundwood (cords)	39,515	4,200	20,495	326	48,389	850	168,228	255.9
Pulpwood Chips	888,636	35,553	75,004	2,593	69,344	2,381	878,699	0.5
Total All Imports A	18,402,259	10,725,164	1,711,680	1,070,874	1,516,455	934,514	18,282,361	-1.1
Wood Pulp Total A	5,038,158	2,663,424	471,208	285,005	428,471	258,616	5 036,605	0.4
Waste Paper	161,367	27,361	12,367	1,900	13,149	2,472	182,445	8.0
Other Fibrous Materials	92,505	32,331	906	283	467	188	13,137	-86.0
Paper Board & Products Total A	13,110,229	8,002,047	1,227,199	783,686	1,074,367	673,239	13,050,174	-1.2
Paper Paperboard Wet Machine Bd. & Construction Paper & Board A	12,679,974	6,989,006	1,178,769	680,489	1,035,627	585,891	12,507,986	-2.2
Paper Ppbd & Prds ex Cnst&WMB A	12,787,784	7,893,637	1,210,479	779,038	1,060,926	669,537	12,849,091	-0.3
Paper & Paperboard Only A	12,357,530	6,880,596	1,162,048	675,841	1,022,187	582,189	12.306,903	-1.3
Paper Total A	12,016,519	6,749,882	1,105,960	647,117	981,874	561,988	11,762,394	-3.0
Newsprint A	8,801,503	4,569,853	787.106	403,251	681,142	341,404	8,207,572	-7.3
Printing & Writing A	2,812,259	1,899,745	268,710	191,449	256,588	176,763	3,047,412	6.5
Uncoated Groundwood	1,362,642	792,881	126,982	78.348	151,276	90.641	1,604,545	12.6
Coated Print.& Impreg. Pap. A	797,765	641,466	76,211	59,826	55,941	46,044	746,826	-7.9
Uncoated Free Sheet A	591,830	414,326	57.627	43,981	40 898	31,004	573,773	2.2
Uncoated Book A	258,146	175,746	N.L.R.	N.L.R.	N.L.R.	N.L.R.	N.L.R.	N.L.R.
Writing and Similar Paper A	333,683	238 580	57,627	43,981	40 898	31,004	573,773	85.6
Thin (except Cigarette)	55,774	48,804	3,975	4,320	3,177	3,094	63,828	8.4
Bristols	4,247	2,269	3,915	4,973	5.297	5 980	58,440	982.5
Total Pkg & Other Paper	343,196	231,796	39,171	42,220	33,781	34,284	389,105	11.5
Unbleached Kraft Paper	161,708	76 116	22,691	11,430	19,532	9.816	230,904	35.3
Other Pkg. & Indust. Paper	181,488	155,680	16,480	30,790	14,249	24,468	158,201	-11.2
Tissue	59.561	48,408	10,973	10,197	10.364	9,537	118,305	83.4
Paperboard, Total	341,011	130,714	56,088	28,724	40,313	20,202	544,509	60.9
Test or Containerboard	85,682	36,145	11,189	4.303	5.609	2 466	85,070	6.5
Semi-Chemical Corrugating	142,490	43,596	9,530	2,867	8,478	2,462	125.695	-14.6
Other Paperboard	112,839	50,972	35 369	21,554	26,226	15.274	333,743	199.5
Convtd Paper&Paperbd Products	430,255	1,013,041	48,431	103,197	38,740	87,347	542,188	29.2
Paper Products, Total	393,089	944,974	40,468	86,115	31,511	73,034	446,287	16.5
Paperboard Products, Total	37,166	68,067	7,962	17,082	7,229	14,314	95,901	161.4
Wet machine Board	4,239	3,780	45	44	52	35	583	-86.8
Construction Paper & Board	318,206	104,630	16,676	4,605	13,389	3,667	200,501	-36.0
Notes								
Other: No Weight Avail. ($000)		177,686		13.411		-12,925	137,080	-23.4
Total Imports Incl. Other($000)		10,902,850		1,084,285		947,439	11,462,612	5.8

NOTE: A - API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

EXPORTS

							(1)	
Pulpwood, Roundwood (cords)	15,470	894	19,801	322	26,505	329	164,271	770.8
Pulpwood Chips	3,503,100	286,191	377,430	33,665	389,974	38 817	4 474,462	33.9
Total All Exports	17,061,208	7,467,363	1 634,569	750,374	1,555,194	742,397	18,971,976	12.0
Wood Pulp, Total	5,528,292	2,914,521	533,551	309,827	547 847	318 213	6 397,564	16.6
Cotton Pulp and Other Pulp	201,567	111,923	9,027	7,510	10,496	9,022	119,489	-39.7
Waste and Old Paper	5,640,118	688,258	529,215	63,945	468,618	55,550	6 121,526	11.1
Paper, Board & Products, Total	5,691,231	3,752,661	562,777	369,093	528,234	359,611	6,333,397	10.3
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	4,876,563	2,701,405	472,945	255,061	440,701	250,314	5,285,067	7.4
Paper, Ppbd & Prod ex Cnst&WMB	5,559,356	3,683,601	559,642	367,892	524,928	358,494	6,296,911	12.3
Paper & Paperboard, Only	4,744,688	2,632,346	469,810	253,860	437,395	249,197	5,248,582	9.7
Paper, Total	1,102,490	988,031	131,676	101,667	136,853	105,816	1,511,405	41.7
Newsprint	427,296	295,474	61,523	31,440	62,899	33,580	662,387	70.8
Printing & Writing	287,208	313,047	40,514	39,183	42,661	40,983	480,439	69.0
Uncoated Groundwood	70,286	58,639	7,862	5,882	7,199	5,277	91,820	40.1
Clay Coated Paper	97,464	79,731	13,761	10,642	15,721	11,807	166,019	64.4
Uncoated Free Sheet	82,660	124,049	8,970	11,645	10,465	13,587	96,408	16.0
Other Printing & Writing	36 799	50,629	9,922	11,013	9,276	10,312	126,191	264.1
Total Pkg. & Other Paper	346,718	342,117	28,110	29,124	29,262	28,736	346,161	-0.5
Unbleached Kraft	110,075	54,975	11,354	4,856	14,585	7,198	125,518	19.7
Other Pkg. & Indust. Paper	236,643	287,142	16,756	24,268	14,677	21,539	220,643	-9.2
Tissue	41,268	37,393	1,530	1,920	2,030	2,516	22,418	-52.1
Paperboard, Total	3,642,198	1,644,314	338,133	152,194	300,542	143,381	3,737,177	0.5
Solid Wood Pulp	3 359,078	1,511,057	324,227	145,363	281,086	134,817	3.547,234	3.5
Total Linerboard	2,281,362	887,846	237,400	85,943	184,018	68,705	2,489,259	7.1
Bleached Kraft Linerboard	140,801	73,728	36,644	15,426	17,312	8 580	271,037	105.9
Unbleached Kraft Linerbd	2,140,562	814,119	200,755	70,517	166,706	60,125	2,218,222	1.2
Other Unbleached Kraft	292,437	102,638	17,116	8,053	20 781	8,864	241,550	-26.9
Other Bleached Kraft	742,918	502,513	66,745	49,713	71,600	55,230	785,379	7.6
Semi-Chemical Corrugating	42,360	18,060	2,966	1,654	4.687	2,012	31 046	-29.6
Recycled Paperboard	283,121	133,257	13,907	6,831	19,456	8,564	189,943	-34.7
Convtd Paper&Paperbd Products	814,668	1,051,256	89,832	114,031	87,533	109,297	1,048,330	28.0
Paper Products, Total	367,548	682,281	41,341	73,574	42,751	73,468	480,758	32.5
Paperboard Products, Total	447,121	368,975	48,491	40,457	44,783	35.829	567,571	24.4
Wet Machine Board	11,691	4,915	53	48	373	151	3,430	-71.5
Construction Paper & Board E	120,184	64,145	3,082	1,153	2,933	966	33,056	-73.0
Notes								
Other: No Weight Avail. ($000)		9,170		2,026		2,326	23,560	160.6
Total Exports Incl. Other($000)		7,476,533		752,400		744,722	8,781,203	18.3

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description. N.L.R. - No longer reported.

PRODUCER PRICE INDEXES
1982 = 100

	1987	1988	JULY 1989	AUGUST 1989	SEPTEMBER 1989	OCTOBER 1989	Annual Rate Y T D 1989	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	114 3	124.8	132 8	132.9	132.9	133.6	132.3	6.6
Pulp Paper & Products, ex. Building Grades & ex Waste Paper *	113.2	123.8	132.4	132.5	132.4	133.2	131.8	7 2
Total Wood Pulp	111.5	136.7	159 4	159 5	159 5	160 8	156.9	16 3
Total Paper	111.5	123.2	130 3	129.6	129.1	128 6	130.0	6.2
Total Paper, exc. Newsprint	110.6	123.4	131.2	130.1	129.9	129 3	131.0	7 1
Newsprint	112.3	127.6	123.6	122.6	120 1	118.8	123.6	-3.2
Total Paperboard	118.1	133.2	140.2	140.3	140.3	140.0	140.3	5 9
Total Paper and Paperboard *	113.6	126.4	133.4	133.0	132.6	132.2	133.2	6.1
Converted Products	114.7	123.0	132.0	132.2	132.4	134.0	131.2	7.3
Waste Paper	181.4	183.6	155.3	157.3	160.1	158.3	158.1	-15.7
All Commodities	102.8	106.9	112.7	112.0	112.3	112.7	112.1	5 2
Industrial Commodities	102.6	106.3	112.2	111.4	111.9	112.4	111.5	5.2

SOURCE. Producer Price Indexes Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

HOURLY COMPENSATION COSTS FOR PRODUCTION WORKERS IN NATIONAL CURRENCY
PAPER AND ALLIED PRODUCTS MANUFACTURING (US SIC 26)

1975 AND 1978-88

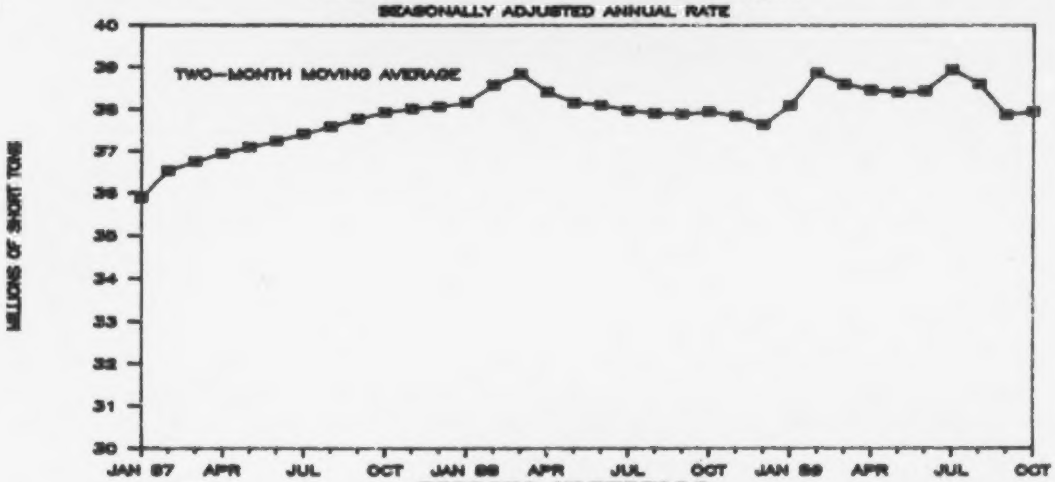
COUNTRY OR AREA	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
UNITED STATES	6.52	8.74	9.64	10.65	11.77	12.85	13.73	14.32	14.95	15.42	15.77	16.16
CANADA	7.35	10.37	11.27	12.30	14.26	15.90	17.43	18.21	19.19	20.13	20.81	21.67
BRAZIL	7	26	41	78	164	341	732	2154	7972			
ISRAEL	1.34	4.12	7.60	17.84	42.48	94.36	244.10	1139.49	4.03	6.78	9.03	11.27
JAPAN	985	1207	1269	1324	1408	1526	1541	1640	1668	1680	1725	1757
KOREA	211	536	705	748	865	989	1102	1119	1262	1391	1591	1956
SINGAPORE	1.51	2.13	2.51	2.97	3.62	4.03	4.70	5.42	5.62	5.52	5.64	6.19
TAIWAN	16.88	27.84	34.08	42.03	49.03	59.42	59.88	69.77	67.71	72.37	77.68	85.95
AUSTRIA	81.60	106.89	112.90	119.78	129.71	137.21	146.37	153.78	162.42	169.13	180.09	194.79
BELGIUM	238.08	316.85	343.73	377.34	416.14	435.56	464.37	505.13	536.42	560.43	580.85	
DENMARK	37.29	53.04	58.93	66.60	73.59	81.14	88.16	92.76	95.68	98.99	110.24	119.78
FRANCE	21.48	31.19	36.12	41.84	47.49	54.78	61.83	66.79	70.79	76.33	79.93	86.41
GERMANY	13.91	18.13	19.19	20.72	21.96	23.17	23.81	24.82	25.60	26.41	27.99	29.26
GREECE	51	100	125	159	198	273	343	436	517	572	625	
IRELAND	1.40	2.12	2.60	3.14	3.90	4.36	4.88	5.41	5.73	6.23	6.46	6.90
ITALY	3439	5782	6747	7653	8927	10571	12407	13766	15195	15913	17084	18148
NETHERLANDS	18.12	23.22	24.53	25.02	25.64	27.01	27.74	29.01	31.40	33.32	33.98	
PORTUGAL	46.18	84.16	104.10	131.40	154.57	184.16	232.77	284.48	378.31	449.79		
SPAIN		294	378	494	525	626	699	813	897	981	1056	
SWEDEN	31.93	48.02	53.87	58.79	65.94	69.82	75.30	85.94	94.30	101.75	110.17	117.82
SWITZERLAND	14.78	16.32	16.94	17.82	19.44	20.81	21.75	22.55	23.48	24.72	25.70	26.36
UNITED KINGDOM	1.53	2.22	2.80	3.34	3.67	4.17	4.48	4.81	5.17	5.55	5.95	6.46

SOURCE: U.S. BUREAU OF LABOR STATISTICS, AUGUST 1989.

containerboard grades. Kraft paperboard production, for example, reached an all-time monthly high of 1,701,000 tons in August, but then dropped 75,000 tons to its October level of 1,624,000 tons. Some of this decline reflected downtime taken for scheduled maintenance and repair. Production of unbleached kraft linerboard for export has held up, with a 1.3% year-to-date gain.

The boxboard grades have moved along a somewhat flatter trend, reflecting a steady demand for the packaging grades. Production of the non-packaging grades, including gypsum wallboard facing and panelboard in particular, are running behind their 1988 totals.

The strength in total paperboard production during the first 8 months of 1989 and subsequent easing in the next two months are pictured on the chart below. This chart also shows the uptrend in production in 1987 and the relative stability of the production trend evident in the last three quarters of 1988.


PAPERBOARD PRODUCTION

SEASONALLY ADJUSTED ANNUAL RATE

FIBROUS MATERIALS

Production of chemical paper grade market pulp has also eased since mid-year. However, the 10-month 1988 totals for both production and exports remain above their year-ago levels, with production up 2.6% and exports up 8%. Mill inventories were 39% above their year-ago level as of the end of October 1989, equivalent to 20 days of supply. The year-to-year tonnage gain was 107,000 short tons. Export shipments in October 1988 were still above year-ago levels, with year-to-date gains of 8% reported in shipments to Western Europe and 25% to Japan. Year-to-date shipments to the domestic market were down 7%.

Data on fibrous materials consumption at paper and paperboard mills in 1989 indicate that the use of wood pulp and waste paper each rose about 1% from their respective 1988 totals. Inventories of waste paper at paper and paperboard mills remained flat.

HOURLY COMPENSATION FOR PRODUCTION WORKERS IN PAPER AND ALLIED PRODUCTS MANUFACTURING 22 COUNTRIES, 1975, 1978-1988

The Bureau of Labor Statistics recently released data on hourly compensation costs for production workers in the paper and allied products industries in 22 countries for the years 1975 and 1978-1988. The data are reported from three different viewpoints: compensation in terms of national currency; in terms of U.S. dollars; and the ratio of the costs in U.S. dollars to U.S. compensation costs.

Measured in U.S. dollars, the trends were, of course, influenced by changes in the exchange rate between U.S. dollars and the national currency. The impact of these changes in the years since 1985, the peak year of the international value of the dollar, was particularly large. In Sweden, for example, a 25% increase in compensation costs in national currency translated into a 75% increase in costs in U.S. dollar terms. This brought Swedish compensation costs to a level that was 19% above those in the U.S.

In Japan, a 5% increase in compensation costs in local currency in the 1985-1988 period translated into a 96% increase in U.S. dollar costs. Even with that increase, the 1988 level of compensation costs in the Japanese paper industry in terms of U.S. dollars was still 15% below that of the U.S. industry, compared to 47% below U.S. compensation costs in 1985.

The 1987-1988 data showed a similar pattern. Costs in Canada, for example, rose 4.1% increase in terms of local currency and 12.1% in terms of U.S. dollars. In Sweden the gain in national currency from 1987 to 1988 was 6.9%; in U.S. dollars 10.6%. Similar data for Japan show a 1.9% gain in local currency and a 14.9% increase in U.S. dollars.

The table below presents the data on hourly compensation costs for production workers in terms of U.S. dollars. The table on the bottom of page 10 shows the data in terms of national currencies.

HOURLY COMPENSATION COSTS FOR PRODUCTION WORKERS IN U.S. DOLLARS
PAPER AND ALLIED PRODUCTS MANUFACTURING (US SIC 26)

1975 AND 1978-88

COUNTRY OR AREA	1975	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
UNITED STATES	6.52	8.74	9.64	10.65	11.77	12.85	13.73	14.32	14.95	15.42	15.77	16.16
CANADA	7.22	9.10	9.63	10.53	11.89	12.88	14.15	14.06	14.05	14.49	15.70	17.60
BRAZIL	.87	1.41	1.52	1.48	1.76	1.90	1.27	1.17	1.29			
ISRAEL	2.10	2.36	2.99	3.48	3.72	3.89	4.34	3.89	3.42	4.56	5.66	7.05
JAPAN	3.32	5.79	5.81	5.87	6.40	6.13	6.48	6.91	6.99	9.97	11.93	13.71
KOREA	.44	1.11	1.46	1.23	1.27	1.35	1.42	1.39	1.45	1.58	1.93	2.67
SINGAPORE	.64	.94	1.15	1.39	1.72	1.89	2.22	2.54	2.55	2.53	2.68	3.08
TAIWAN	.44	.75	.95	1.17	1.33	1.52	1.49	1.76	1.70	1.91	2.44	3.01
AUSTRIA	4.69	7.37	8.44	9.26	8.16	8.04	8.15	7.69	7.85	11.08	14.24	15.76
BELGIUM	6.49	10.08	11.72	12.92	11.24	9.51	9.08	8.75	9.04	12.55	15.55	
DENMARK	6.50	9.63	11.20	11.83	10.36	9.72	9.64	8.96	9.03	12.23	16.10	17.77
FRANCE	5.02	6.93	8.49	9.91	8.78	8.33	8.11	7.65	7.88	11.02	13.30	14.50
GERMANY	5.67	9.04	10.47	11.41	9.74	9.54	9.32	8.72	8.70	12.17	15.57	16.66
GREECE	1.59	2.71	3.38	3.72	3.57	4.08	3.90	3.87	3.74	4.09	4.61	
IRELAND	3.12	4.07	5.32	6.46	6.29	6.20	6.09	5.87	6.11	8.36	9.62	10.52
ITALY	5.27	6.81	8.12	8.95	7.89	7.81	8.17	7.84	7.96	10.67	13.17	13.94
NETHERLANDS	7.18	10.74	12.23	12.60	10.31	10.11	9.72	9.04	9.46	13.61	16.77	
PORTUGAL	1.81	1.92	2.13	2.63	2.52	2.30	2.09	1.93	2.20	3.00		
SPAIN		3.84	5.63	6.90	5.71	5.68	4.87	5.06	5.28	7.01	8.55	
SWEDEN	7.71	10.63	12.56	13.90	13.10	11.11	9.82	10.39	10.96	14.28	17.36	19.20
SWITZERLAND	5.73	9.18	10.19	10.64	9.92	10.24	10.35	9.59	9.56	13.75	17.23	18.81
UNITED KINGDOM	3.39	4.25	5.95	7.76	7.43	7.30	6.79	6.42	6.71	8.15	9.75	11.51

SOURCE: U.S. BUREAU OF LABOR STATISTICS, AUGUST 1989.

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

November 30, 1989

PRODUCTION (000 TONS)

*	(P) OCTOBER 1989	* SEPTEMBER 1989	* OCTOBER 1988	* FIRST 10 MONTHS 1989	* 1988	% CHANGE YR TO DATE 1989/1988
PAPER GRADES						
Newsprint	526	517	508	5,040	4,977	1.3
Printing & Writing	1,916	1,772	1,840	17,983	18,248	-1.4
Uncoated Groundwood (s)	167	152	149	1,478	1,366	8.2
Coated Paper (s)	653	610	623	5,984	6,182	-3.2
Uncoated Free Sheet Paper (s)	968	885	940	9,250	9,428	-1.9
Thin Paper (s)	15	16	20	162	180	-10.0
Cotton Fiber Paper (s)	14	13	15	133	138	-4.1
Bleached Bristols (s)	100	95	94	977	954	2.4
Tissue Paper	489	473	476	4,703	4,581	2.7
Total Pkg & Other Paper	438	406	420	4,096	4,205	-2.6
Unbl. Kraft Paper (s)	239	210	228	2,225	2,330	-4.5
Other Paper	199	195	192	1,871	1,875	-0.2
TOTAL PAPER	3,369	3,168	3,244	31,822	32,011	-0.6
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,624	1,596	1,568	16,351	16,023	2.1
Unbleached Kraft Linerboard	1,512	1,495	1,479	15,238	14,985	1.7
Other Unbl. Kraft Paperboard	112	101	90	1,113	1,037	7.3
Semichemical Paperboard	475	461	473	4,750	4,698	1.1
Bleached Paperboard	378	351	373	3,786	3,764	0.6
Recycled Paperboard	759	691	779	7,234	7,401	-2.2
TOTAL PAPERBOARD	3,236	3,100	3,193	32,121	31,885	0.7
TOTAL PAPER AND PAPERBOARD	6,605	6,267	6,437	63,943	63,896	0.1

WOOD PULP (ALL GRADES)	SEPTEMBER 1989	AUGUST 1989	SEPTEMBER 1988	FIRST 9 MONTHS 1989	1988	% Change 89/88
Dissolving & Special Alpha	135	108	135	1,076	1,030	4.5
Bleached Sulfite) Unbleached Sulfite)	144	136	124	1,190	1,153	3.2
Bleached & Semi-Bl. Sulfate	2,166	2,359	2,121	20,435	19,656	4.0
Unbleached Sulfate	1,760	1,827	1,800	16,288	16,274	0.1
Semichemical	361	359	359	3,283	3,253	0.9
Groundwood & Thermomechanical	505	511	473	4,474	4,457	0.4
TOTAL PULP DIVISION DATA	5,070	5,301	5,012	46,746	45,822	2.0

(s) - Shipments
P - Preliminary

November 30, 1989

	Full Year		INDUSTRY DATA 1988 - 1989			Ann. Rate Year - To - Date	% From Same Pd. Last Year
				R	P		
PAPER AND PAPERBOARD -- Tons (000)	1987	1988	August	September	October	1989	
Total Production (API).......: excluding :...	74,317	76,403	6,613	6,267	6,605	76,732	0.1
Total Seasonally Adjusted....:construction:...			6,356	6,281	6,484	76,544	0.1
Imports (including Products).: and wet :..E	12,528	12,788	1,210	1,061	1,179	12,979	1.0
Exports (including Products).: machine :..E	5,197	5,559	560	525	585	6,369	14.7
Apparent Consumption.........: grades :...	81,648 a	83,631 b	7,007	6,817	7,078	83,341 c	-0.5
Paper Production % Tonnage Capacity...........	94.4 g	95.3	93.2	92.4	94.5	92.6	-
Paperboard Production % Tonnage Capacity......	95.7 g	95.0	94.3	91.0	92.2	94.0	-
			July	August	September		
IMPORTS.....:Including Construction and :...	12,837	13,110	927	1,227	1,074	13,050	-1.2
EXPORTS.....: WMB Grades (excl. HPB) :...	5,304	5,691	488	563	528	6,333	10.3
MARKET WOOD PULP PRODUCTION - Tons (000)........	8,114	8,565	761	757	719	8,867	' 3.2
TOTAL WOOD PULP PRODUCTION - Tons (000).........	59,552	61,161	5,399	5,301	5,070	62,328	2.0
WOOD PULP IMPORTS - TONS (000)..................	4,850	5,038	358	471	428	5,037	0.4
WOOD PULP EXPORTS - TONS (000)..................	4,889	5,528	540	534	548	6,398	16.6
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS : excluding :			July	August	September		
Wood Pulp............:consumption for:.....	59,475	60,847	5,207	5,239	4,997	61,402	1.1
Waste Paper..........:construction & :.....	17,993	18,860	1,579	1,650	1,590	19,043	0.9
TOTAL..........: WMB grades :.....	77,468	79,707	6,786	6,888	6,587	80,446	1.1
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	93,946	95,497	8,548	8,498	8,167	98,769	3.6
EMPLOYMENT (000)			August	September	October		
Paper and Allied Products..........Total......	680.1	692.6	704.0	698.6	699.1	697.1	0.8
Pulp, Paper and Board Mills........Total.....E	244.9	245.5	251.2	247.3	246.1	247.1	0.6
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			August	September	October		
Paper and Allied Products......................	11.43	11.66	11.90	11.99	11.97	11.89	2.3
Pulp, Paper Mills..........................E	14.01	14.31	14.64	14.81	14.88	14.66	2.7
Paperboard Mills...........................E	14.30	14.49	14.76	14.96	14.89	14.68	1.5
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1989 Q1	1989 Q2	1989 Q3		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	9.01	11.36	14.39	14.87	16.03	15.50 Y	36.4
INDEX OF OUTPUT PER MAN-HOUR (1977=100)..........			August	September	October		
:IN PULP, PAPER :...Production Workers..........	145.0	148.7	148.5	145.8	151.1	149.7	0.5
:AND BOARD MILLS:...All Employees...............	141.8	146.1	144.7	142.7	147.3	146.2	-0.1
PAPER AND ALLIED PRODUCTS (Million $)			July	August	September		
Industry Shipments (Dept. of Commerce)*........	118,855	127,718	10,846	10,885	10,857	130,609	2.8
Pulp, Paper and Paperboard*..................	51,518	57,177	4,870	4,792	4,774	58,291	2.2
Inventories (End of Period) - Total Industry*..	11,284	12,065	12,483	12,572	12,597	12,597	7.0
Pulp, Paper and Paperboard*..................	4,266	4,325	4,804	4,874	4,923	4,923	17.6
			1988 Q4	1989 Q1	1989 Q2		
Sales (Corporations Only)......................	95,576	107,221 RS	26,990	27,281	28,534	111,630	5.6
Earnings (Corporations Only)...................	5,520	8,081 RS	1,911	1,979	2,022	8,002	1.5
Depreciation (Corporations Only)...............	4,279	4,625 RS	1,167	1,187	1,231	4,836	5.4
Net Worth (Corporations Only)..................	39,217	42,940 RS	42,940	44,093	45,242	45,242	8.6
PRICE INDEXES (Bureau of Labor Stats)1982=100			August	September	October		
Pulp, Paper & Products, ex. Building Grades....	114.3	124.7	132.9	132.9	133.6	132.3	6.7
Wood Pulp......................................	111.6	136.7	159.5	159.5	160.8	156.9	16.2
Waste Paper....................................	181.4	183.5	157.3	160.1	158.3	158.1	-15.7
Paper..	111.5	123.2	129.6	129.1	128.6	130.0	6.3
Paperboard.....................................	118.1	133.2	140.3	140.3	140.0	140.3	5.9
PAPER DEMAND (INDEXED: 1977=100)			August	September	October		
Total Paper Production *.......................	133.4	138.2	137.4	136.5	142.4	137.4	-0.6
Paper New Supply *.............................	140.2	144.3	145.8	140.1	148.4	141.8	-1.9
Demand Indicators - (Weighted Average) *.....	154.5	163.7	176.1	176.7	176.7	174.6	7.1
Production of Nondurable Goods *...(21.2%).	136.8	143.9	150.9	150.8	151.0	149.8	4.6
Disposable Income ....*.(23.9%)	130.0	134.9	141.5	141.4	141.7	140.3	4.3
Total Printing and Publishing *...(54.9%).	172.0	183.8	200.9	202.1	201.9	199.1	8.8
Trend Factor				Not Available			
PAPERBOARD DEMAND (INDEXED: 1977=100)							
Total Paperboard Production *..................	129.2	131.6	131.9	129.7	132.4	132.9	0.8
Production for Domestic Use	126.1	129.0	129.6	128.1	128.7	130.1	0.7
Demand Indicators - (Weighted Average) *.....	125.9	132.5	137.4	137.3	136.6	136.9	3.8
Production of Consumer Goods *...(62.06%)	127.7	133.9	139.1	138.9	138.5	138.9	4.3
Production of Equipment *...(5.75%)	148.8	158.2	166.5	166.5	162.7	164.3	4.1
Production of Materials *...(32.19%)	118.3	125.3	128.9	128.9	128.2	128.1	2.8
Trend Factor				Not Available			
NEWSPRINT MARKETS			July	August	September		
Consumption by Publishers - Tons (000)..........	13,583	13,597	1,053	1,105	1,139	13,269	-0.5
Newspaper Pub. and Printing Empl. Total(000)...	471	475	477	477	476	477	0.6
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (PIB, Inc.)...........	164,771	170,717	10,492	11,116	17,021	167,843	3.5
WHOLESALERS SALES AND INVENTORIES (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	44,741	52,377	4,507	5,116	4,729	55,793	8.0
Inventories (End of Period).	3,850	4,436	4,647	4,477	4,403	4,403	3.9
FIBRE BOX DATA (Fibre Box Association)			August	September	October		
Fibre Box Shipments (Million square feet).......	297,827	308,507	27,718	25,363	28,961	316,637	1.5
Container'bd Inventory at Mill & Plant(000Tons).	2,486	2,553	2,664	2,643	2,461	2,461	-2.3
RETAIL TRADE (Billion $)			August	September	October		
Total Retail Sales *...........................	1,511	1,612	144.9	145.9	144.5	1,709	6.7
Nondurable Goods Stores Sales *................	950	998	89.0	90.0	90.1	1,058	6.7
GENERAL ECONOMIC DATA			August	September	October		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1977 = 100)*..	129.8	137.2	142.4	142.4	141.4	141.5	3.6
PRODUCER PRICES(ALL COMMODITIES)(INDEX 1982=100).	102.8	106.9	112.0	112.3	112.7	112.1	5.2
CONSUMER PRICES (ALL ITEMS) (INDEX 1982-4=100)...	113.6	118.3	124.6	125.0	125.6	123.6	4.9
			July	August	September		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $)..	618.2	671.4	699.0	706.1	708.8	708.8	8.8
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$)..			1989 Q1	1989 Q2	1989 Q3		
G.N.P. or Expenditure - Current $..............	4,524	4,881	5,017	5,113	5,202	5,198	7.5
G.N.P. or Expenditure - 1982 $.................	3,854	4,024	4,069	4,107	4,133	4,133	3.1

lb/capita Pap&Papbd	Othr	Totl	Popul(mil)
.a - 669 +	17 =	686	243.9
.b - 679 +	17 =	696	246.3
.c - 670 +	17 =	687	248.8

.E - Last month estimated by API

f - Wood Pulp Production excludes def., explo. & scrngs.
g - Adjusted for holiday shutdowns
h - First 3 quarters, annual rate
Q - Quarter

R - Revised
Y - Full year estim. by U.S. Dept. of Com.
RS - Revised Series
* - Seasonally Adjusted.

H2500-7

Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY · Vol. 67 No. 12 DECEMBER 1989

PAPER AND PAPERBOARD PRODUCTION: NEW GROWTH

Paper and paperboard production moved up smartly during the last four months of 1989, bringing the total for the full year back to, or even a shade above, the record high 1988 total of 76.4 million tons.

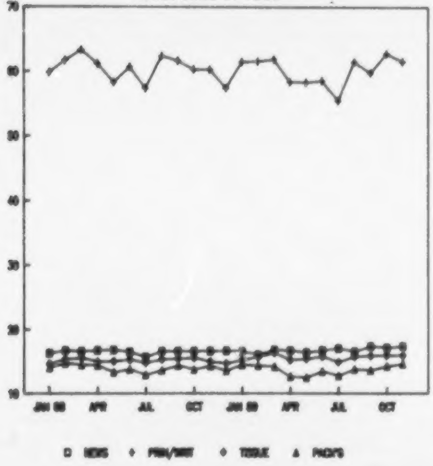
The gain was centered on the paper grades, largely reflecting the completion of inventory corrections by users of printing-writing papers. The strength in the late months of 1989 brought the 1989 paper production total to a virtual tie with its 1988 high from a mid-year rate that lagged its corresponding 1988 total by more than a full percentage point.

Paperboard production, which had held steady at about 1% above its record-high 1988 rate during the first three quarters of 1989, eased slightly during the last four months, but still finished the year at a new high, at perhaps 0.8% ahead of its 1988 total.

Production by Grade: Perhaps the most remarkable aspect of the performance of the paper industry in 1989 was the steadiness of the production trends of each of its major grades. This is particularly evident when the monthly production data are adjusted for the number of workdays. As the table below shows, the workday adjusted trends of these grades deviated little from their respective 1988 monthly averages.

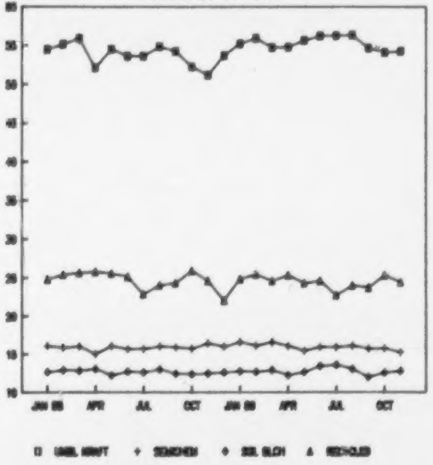
PAPER: PRODUCTION PER WORKDAY

Thousands of Tons



PAPERBOARD: PRODUCTION PER WORKDAY

Thousands of Tons



COPYRIGHT © 1989 AMERICAN PAPER INSTITUTE 260 Madison Avenue New York, N.Y. 10016

There were, of course, differences in the trends. Among the paper grades, the largest gains were in newsprint, with the January-November 1989 total 1.6% above its year-ago rate; uncoated groundwood papers up an astonishing 8.9% and tissue paper production up a solid 3.0%. The strength in demand for domestically-produced newsprint reflected some shift away from imported newsprint together with a late-year seasonal gain in total newsprint consumption. The increase in demand for domestic groundwood papers also was due, in part, to a shift away from imports. While publishers of periodicals other than magazines, which include such publications as catalogs and directories, along with book publishers did increase their use of uncoated groundwood papers, the major gain, one unusually strong, came from commercial printers. Commercial printers took 24% of total domestic shipments of these papers in the first 11 months of 1989, compared to 20% in the January-November 1988 period.

While the trend of shipments of uncoated free sheet papers and of total coated papers moved up strongly in the last half of 1989, their respective 1989 totals still came in a bit under their 1988 record highs, even though imports of both these products were down from their 1988 levels. With the exception of manufacturers of labels and wraps -- the major market for coated one-side papers -- all the major users of coated papers and uncoated free sheet papers reduced their purchases of both these grades from their year-ago levels.

Shipments of unbleached kraft papers picked up after mid-year -- the July-November monthly average was 3.2% ahead of the first half 1989 average -- but the total still lagged its year-ago rate by about 3%. The API's Kraft Paper Division has embarked on a new program to promote the demand for paper grocers sacks that already gives promise of success.

Production of the containerboard for fiber boxes also moved along a relatively flat trend during 1989, with the total for the year holding some 1% ahead of its year-ago rate. Equally encouraging was the trend of inventories at mills and box plants. The level as of the end of November was equivalent to 5.2 weeks of supply, compared to an average of 5.7 weeks in the first quarter of the year and 5.3 weeks one year earlier.

The packaging grades of boxboard showed production gains. Production of folding boxboard, for example, was 1.8% ahead of its year-ago level in the first 11 months of 1989, sparked by a 9% increase in unbleached kraft folding boxboard. Production of milk carton and food service board increased 2.5% in this period, led by a 5.3% gain in plate, dish and tray stock and a 10.3% gain in exports.

PAPER AND PAPERBOARD STATISTICS

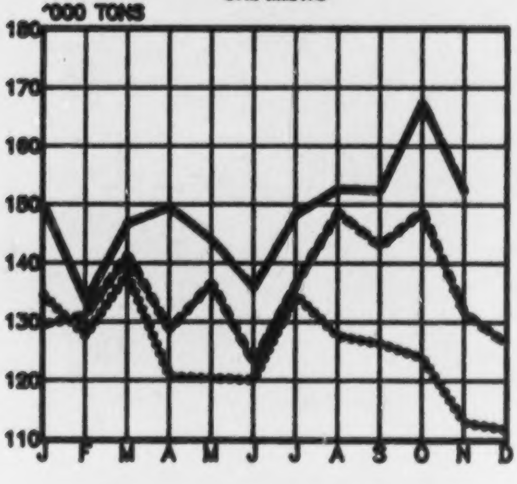
PRODUCTION, SHIPMENTS AND ORDERS
(Thousands of Short Tons)

	YEAR		AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	Annual Rate Y-T-D	% Change From same Period Last Year
	1987	1988	1989	1989	1989 (R)	1989 (P)	1989	
PAPER								
Newsprint - Production	5,842	5,982	510	517	526	516	6,061	1.6
- Shipments	5,854	5,969	517	518	526	530	6,054	1.9
Printing & Writing Sum	20,778	21,793	1,884	1,773	1,917	1,825	21,619	-1.1
Groundwood Paper - Shipments	1,498	1,624	153	152	167	152	1,778	8.9
- New Orders	1,542	1,654	168	177	152	129	1,783	10.7
-Unfilled Orders	166	208	217	238	212	190	190	26.6
Coated Papers - Shipments	6,860	7,359	652	611	653	615	7,209	-2.6
- New Orders	7,066	7,412	659	633	667	552	7,285	-2.4
- Unfilled Orders	708	751	850	877	861	827	827	11.0
Unctd Free Sheet - Shipments	10,966	11,277	952	885	968	942	11,118	-1.5
- New Orders	11,173	11,298	1,017	950	995	980	11,162	-0.7
- Unfilled Orders	772	790	635	701	696	785	785	10.9
Thin Papers - Shipments	240	217	16	16	15	16	194	-11.0
Cotton Fiber Paper - Shipments	163	167	12	13	14	12	158	-4.6
Bleached Bristols - Production	1,052	1,150	100	95	100	89	1,163	1.3
Tissue Paper - Production	5,301	5,476	484	473	489	474	5,647	3.0
Total Packaging & Other Paper	4,955	5,047	425	406	438	435	4,943	-2.2
Unbl. Kraft Paper - Shipments RS	2,840	2,800	227	210	239	241	2,690	-3.7
Other Paper - Production RS	2,115	2,247	198	195	199	195	2,253	-0.2
TOTAL PAPER-Production-Unadj.	36,876	38,298	3,303	3,168	3,369	3,250	38,270	-0.2
-Production-S.A.			3,174	3,152	3,288	3,304	38,227	-0.2
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	28,859	29,316	2,585	2,408	2,477	2,406	29,774	1.7
Total Unbl. Kraft Paperboard	18,898	19,140	1,701	1,596	1,624	1,585	19,567	2.4
Unbl. Kraft Linerboard (1)	17,683	17,897	1,572	1,495	1,517	1,492	18,257	2.2
Production for Export	2,303	2,296	182	174	202	200	2,358	3.6
Other Unbl. Kraft Paperboard	1,215	1,244	129	101	107	93	1,310	5.6
Semichemical Paperboard	5,536	5,664	488	461	475	447	5,669	0.3
Production for Export	193	136	10	8	14	9	135	-1.9
Solid Bleached Paperboard	4,406	4,511	396	351	378	374	4,538	0.7
Production for Export	619	628	59	51	65	61	675	7.9
Recycled Paperboard	8,601	8,789	727	694	761	715	8,682	-2.0
Production for Export	75	72	3	1	3	4	34	-54.4
TOTAL PAPERBOARD-Prod.-Unadj.	37,442	38,105	3,312	3,102	3,238	3,121	38,456	0.9
- Containerboard Prod.(Dom. Use)	23,025	23,563	2,075	1,966	1,975	1,930	23,819	1.1
- Boxboard Prod.(Dom. Use)	6,969	7,066	625	560	588	569	7,121	0.8
- All Other P'bd Prod.(D.U.)	4,262	4,344	359	342	390	347	4,314	-1.9
- Total Paperbd Prod. for Export	3,190	3,132	254	235	284	274	3,202	2.8
TOTAL PAPERBOARD PROD.- S.A.			3,185	3,133	3,198	3,202	38,476	0.9
TOTAL PAPER AND PAPERBOARD								
Production - Unadj.	74,318	76,403	6,615	6,270	6,607	6,370	76,725	0.3
Production - S.A.			6,358	6,284	6,486	6,505	76,702	0.3

(1)Includes all exports of kraft paperboard. R - Revised P - Preliminary S.A. - Seasonally Adjusted
RS - Revised Series

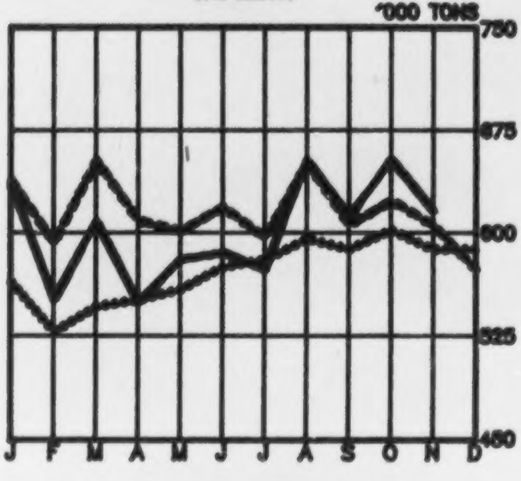
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



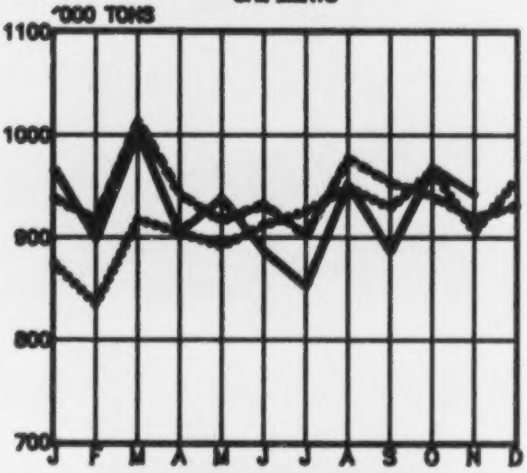
COATED PAPER

SHIPMENTS



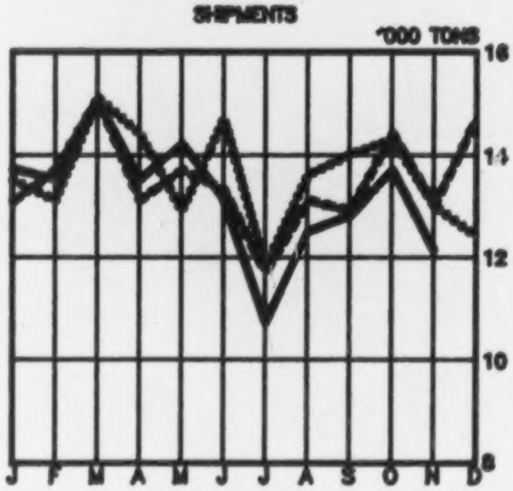
UNCOATED FREE SHEET PAPERS

SHIPMENTS



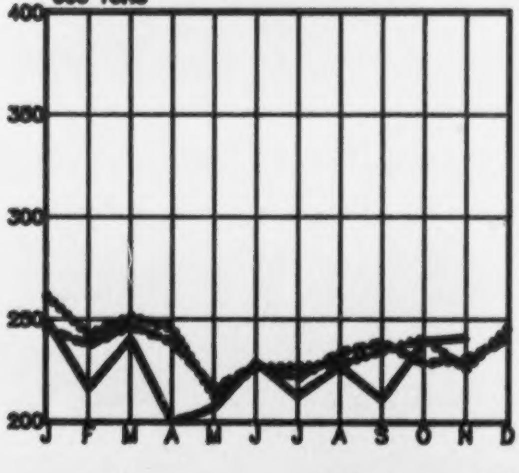
COTTON FIBER PAPER

SHIPMENTS



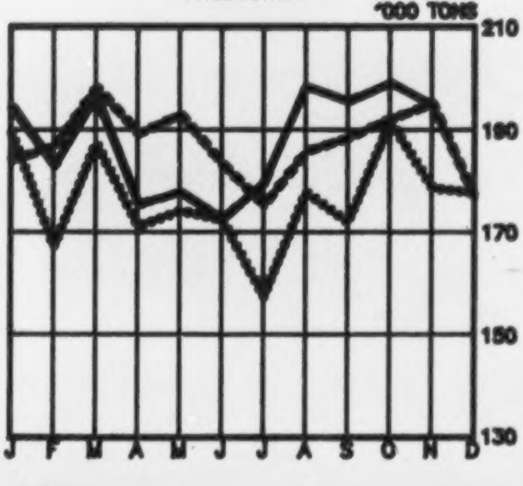
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1987 -------- 1988 ══════ 1989 ━━━━━━

WOOD PULP STATISTICS
(Thousands of Tons)

		YEAR 1987	YEAR 1988	JULY 1989	AUGUST 1989	SEPTEMBER 1989	OCTOBER 1989	Annual Rate Y-T-D 1989	% Change from same Period Last Year
TOTAL WOOD PULP						R	P		
Total Wood Pulp	- Production	59,552	61,161	5,399	5,301	5,063	5,295	62,440	2.2
	- Imports	4,850	5,038 A	358	471	428	442	5,063	0.5
	- Exports	4,889	5,528	540	534	548	502	6,360	16.8
	- New Supply	59,513	60,671	5,217	5,238	4,944	5,234	61,143	0.8
Dissolving Pulp	- Production	1,312	1,367	144	108	128	109	1,413	4.3
	- Imports	198	248	13	28	27	34	303	31.2
	- Exports	752	865	62	81	61	67	831	-1.4
	- New Supply	757	751	95	55	95	76	884	19.3
Paper Grades Chemical Pulp	- Production	48,293	49,493	4,377	4,322	4,069	4,277	50,628	2.4
	- Imports	4,456	4,419 A	328	400	365	378	4,427	0.0
	- Exports	4,111	4,612	472	441	484	432	5,454	19.8
	- New Supply	48,637	49,300	4,233	4,281	3,951	4,223	49,600	0.6
Groundwood and Thermo-Mech.	- Production	5,702	5,943	510	511	505	530	6,005	0.7
	- Imports	197	371 A	17	43	36	30	334	-12.6
	- Exports	26	51	6	11	3	3	75	59.8
	- New Supply	5,872	6,263	521	543	538	556	6,264	-0.5
Semi-Chemical	- Production	4,246	4,358	368	359	361	379	4,395	1.0
	- Imports								
	- Exports								
	- New Supply	4,246	4,358	368	359	361	379	4,395	1.0
MARKET WOOD PULP									
Total Market Wood Pulp	- Production	8,114	8,565	761	757	712	682	8,790	3.3
	- Imports	3,235	3,471	284	261	292	290	3,369	-2.7
	- Exports	4,820	5,071	446	487	439	396	5,389	7.5
	- New Supply	6,529	6,966	599	531	565	576	6,770	-2.8
Dissolving Pulp	- Production	1,308	1,365	144	108	127	109	1,407	4.1
	- Imports	154	206	7	23	21	24	222	12.0
	- Exports	775	798	51	75	76	63	816	5.0
	- New Supply	687	774	99	56	73	70	813	5.1
Paper Grades Chemical Pulp	- Production	6,806	7,200	617	649	585	573	7,383	3.1
	- Imports	2,975	3,126	276	236	265	264	3,093	-0.3
	- Exports	4,045	4,273	395	412	363	333	4,572	8.0
	- New Supply	5,736	6,052	498	472	487	504	5,904	-2.1
Groundwood Pulp and All Other	- Production	0	0	0	0	0	0	0	0.0
	- Imports RS	106	139	2	3	5	2	53	-66.8
	- Exports	0	0	0	0	0	0	0	0.0
	- New Supply	106	139	2	3	5	2	53	-66.8

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

NOTE: A - API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

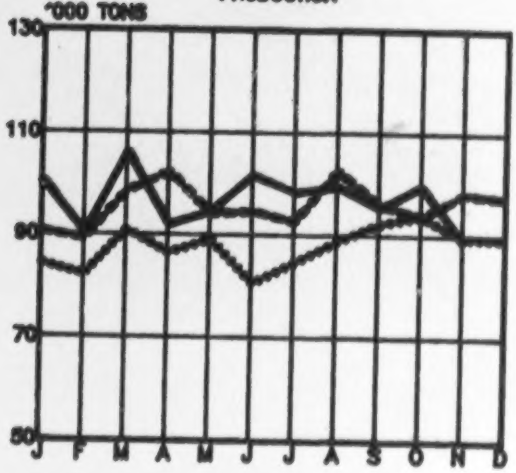
FIBROUS RAW MATERIALS
(Thousands of tons)

	YEAR 1987	YEAR 1988	JULY 1989	AUGUST 1989	SEPTEMBER 1989	OCTOBER 1989	Annual Rate Y-T-D 1989	% Change from same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	77,468	79,707	6,783	6,891	6,589	6,989	80,789	1.3
Total Wood Pulp	59,474	60,847	5,207	5,239	4,997	5,311	61,635	1.3
Waste Paper	17,993	18,860	1,576	1,652	1,592	1,678	19,154	1.3
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	170	172	191	193	205	187	187	16.3
Producers' Market Inventories	224	261	320	353	364	382	382	38.4
Consumers' Purchased Inventories #	529	622	573	591	590	551	551	-5.5
Waste Paper at Paper & Bd. Mills	902	1,029	1,007	1,053	1,036	1,034	1,034	6.8
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	12	14	16	17	19	20	20	33.3

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API. # Includes all grades of wood pulp.
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons RS - 1988 Revised Series

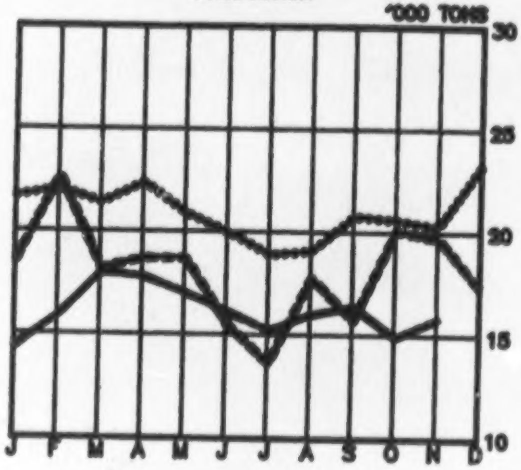
BLEACHED BRISTOLS

PRODUCTION



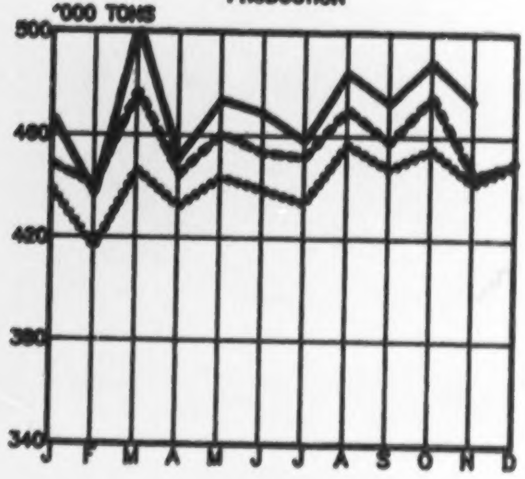
THIN PAPER

PRODUCTION



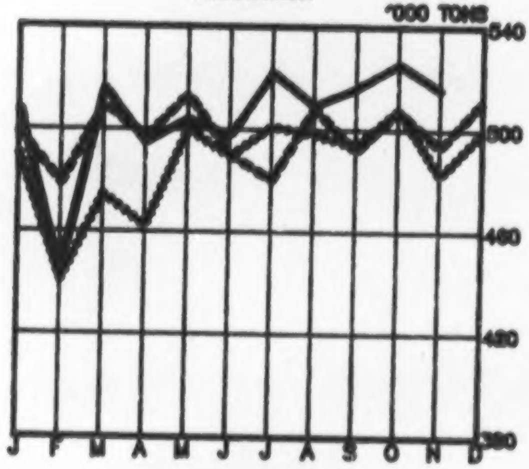
TISSUE PAPER

PRODUCTION



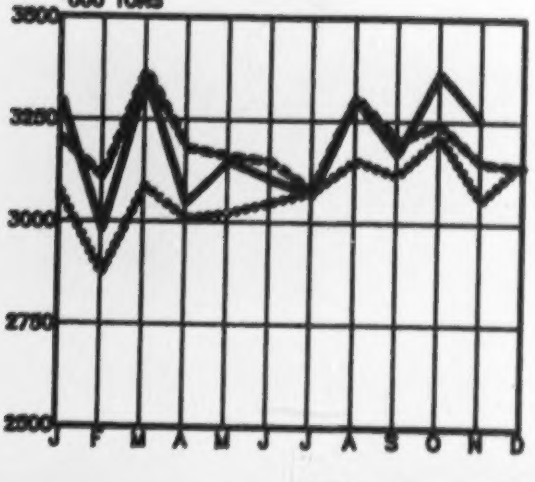
NEWSPRINT

PRODUCTION



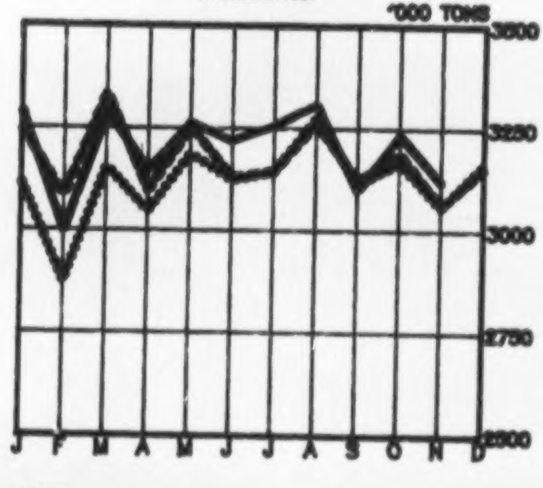
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1987 ········ 1988 -·-·-·-· 1989 ————

FIBROUS RAW MATERIALS
(Thousands of Standard (128 cubic foot) Cords)

		YEAR 1987	YEAR 1988	JULY 1989	AUGUST 1989	SEPTEMBER 1989	OCTOBER 1989	Annual Rate Y-T-D 1989	% Change From Same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	94,312	95,537	8,476	8,946	8,491	8,876	99,880	5.0
	- Total Consumpt	93,946	95,497	8,548	8,498	8,167	8,331	98,890	3.8
	- Residues *	32,899	33,186	2,989	2,983	2,845	3,125	34,710	4.8
	- Inventories	5,096	4,888	4,191	4,415	4,891	5,405	5,405	14.4
So. Atlantic	- Total Receipts	31,147	31,582	2,719	2,778	2,804	2,801	32,279	3.1
	- Total Consumpt	30,915	31,567	2,814	2,684	2,782	2,737	32,550	3.4
	- Residues *	9,553	9,897	884	849	821	887	10,002	1.9
	- Inventories	1,211	1,200	811	889	956	956	956	-15.7
Northeast	- Total Receipts	6,941	7,187	590	628	585	687	7,306	2.8
	- Total Consumpt	7,109	7,216	579	598	583	603	7,165	-0.9
	- Residues *	1,543	1,664	97	146	126	132	1,619	-0.7
	- Inventories	594	572	444	453	444	499	499	-1.6
South Central	- Total Receipts	33,650	33,751	2,913	3,355	3,119	3,286	35,946	7.3
	- Total Consumpt	33,059	33,646	3,050	3,212	3,020	3,006	35,798	7.1
	- Residues *	9,992	9,890	823	936	884	988	10,499	6.5
	- Inventories	1,294	1,160	739	958	1,055	1,398	1,398	21.9
North Central	- Total Receipts	6,552	6,865	582	640	602	624	7,045	1.5
	- Total Consumpt	6,764	6,929	565	594	531	592	6,960	0.0
	- Residues *	1,263	1,334	96	106	116	132	1,390	1.8
	- Inventories	830	839	779	829	899	945	945	10.9
West	- Total Receipts	16,022	16,152	1,672	1,545	1,381	1,478	17,304	6.4
	- Total Consumpt	16,099	16,139	1,540	1,410	1,251	1,393	16,416	1.2
	- Residues *	10,548	10,401	1,089	946	898	986	11,201	7.1
	- Inventories	1,167	1,117	1,418	1,286	1,537	1,607	1,607	48.0

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA *

	YEAR 1988 Tons	YEAR 1988 ($000's)	SEPTEMBER 1989 Tons	SEPTEMBER 1989 ($000)	OCTOBER 1989 Tons	OCTOBER 1989 ($000)	Annual Rate Y-T-D 1989 Tons	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	39,337	4,195	48,389	850	10,147	160	163,582	269.7
Pulpwood chips	876,038	35,184	69,292	2,356	50,328	1,793	835,613	-1.9
Wood Pulp, Total A	4,340,245	2,282,329	359,576	214,348	386,880	232,756	4,398,171	1.6
Waste Fibrous Materials, Total	227,004	48,450	13,368	2,450	12,267	2,407	168,480	-29.4
Paper, Board & Products, Total A	10,521,785	5,734,562	897,599	493,893	982,626	546,197	10,998,829	2.3
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd. A	10,390,709	5,493,176	882,456	466,904	969,083	517,649	10,822,590	2.0
Paper, Paperboard & Products A	10,307,877	5,668,763	885,652	490,883	968,695	542,796	10,836,616	3.0
Paper & Paperboard, Only A	10,176,801	5,427,377	870,510	463,895	955,152	514,248	10,660,378	2.6
Paper, Total A	9,911,685	5,330,887	838,225	451,481	917,648	500,258	10,237,927	1.1
Newsprint A	8,284,709	4,320,023	651,514	330,110	716,904	368,286	8,058,099	N.C.
Printing, Writing & Rel. Pap. RSA	1,346,435	842,397	160,443	102,423	170,835	110,836	1,863,427	38.7
Pack. & Ind. Conv. Paper	227,493	120,765	17,625	9,903	19,604	10,555	213,833	-9.7
Special Industrial Paper	4,767	9,106	4,366	5,219	5,485	6,339	46,886	949.9
Tissue Paper	48,281	38,596	4,278	3,824	4,821	4,242	55,682	11.2
Paperboard, Total	265,116	96,490	32,284	12,414	37,504	13,990	422,451	58.4
Convtd Paper&Paperbd Products RS	131,076	241,387	15,142	26,988	13,543	28,548	176,239	34.0
Wet Machine Board	2,939	2,120	4	3	3	4	250	-92.0
Construction Paper & Board	210,970	63,679	11,942	3,007	13,928	3,397	161,963	-25.6

NOTE: A - API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

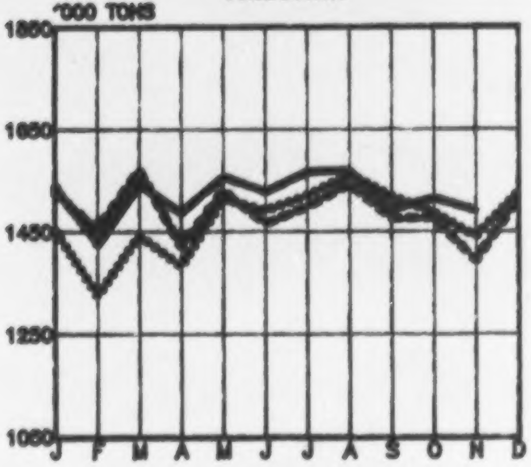
EXPORTS TO CANADA *

	YEAR 1988 Tons	YEAR 1988 ($000's)	SEPTEMBER 1989 Tons	SEPTEMBER 1989 ($000)	OCTOBER 1989 Tons	OCTOBER 1989 ($000)	Annual Rate Y-T-D 1989 Tons	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	14,180	836	22,582	280	2,226	28	74,275	337.6
Pulpwood chips	33,040	1,739	2,476	113	1,775	48	31,901	-15.2
Wood Pulp, Total	280,074	101,214	40,860	18,173	35,462	14,100	364,508	34.3
Cotton Pulp & Other Pulp	84,891	24,062	414	349	612	398	6,221	-92.2
Waste Paper	331,999	38,199	20,646	3,242	22,062	3,446	299,294	-11.0
Paper, Board & Products, Total	1,050,117	715,960	101,250	68,667	117,391	77,527	1,092,441	1.1
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	773,573	464,416	68,165	43,587	85,276	51,610	762,992	-4.8
Paper, Paperboard & Products	1,013,157	699,127	98,573	67,813	115,144	76,748	1,070,540	2.6
Paper & Paperboard, Only	737,013	447,583	65,488	42,733	83,029	50,831	741,092	-3.2
Paper, Total	340,156	293,175	32,920	29,528	37,224	33,509	370,403	6.5
Newsprint	5,806	5,304	710	413	654	324	8,810	48.4
Printing, Writing & Rel. Pap.	166,667	160,007	20,593	20,928	22,733	22,730	228,506	33.5
Pack. & Ind. Conv. Paper	41,718	29,572	6,256	2,445	7,726	3,362	61,095	53.4
Special Industrial Paper	118,806	90,276	4,595	4,918	5,520	6,396	64,728	-47.8
Tissue Paper	7,160	8,016	766	824	591	696	7,265	3.4
Paperboard, Total	396,857	154,408	32,568	13,205	45,805	17,323	370,689	-11.2
Convtd Paper&Paperbd Products	276,145	251,544	33,085	25,080	32,115	25,916	329,448	18.3
Wet Machine Board	6,527	2,590	80	30	55	41	1,909	-71.1
Construction Paper & Board	30,433	14,243	2,597	824	2,193	738	19,991	-33.2

SOURCE: Bureau of Census, Department of Commerce . E - Estimate of tonnage based on square foot data RS - Revised Series
* 1989 Import/Export codes revised to Harmonized System. Detail may not always be comparable to 1988. NC - Not Comparable

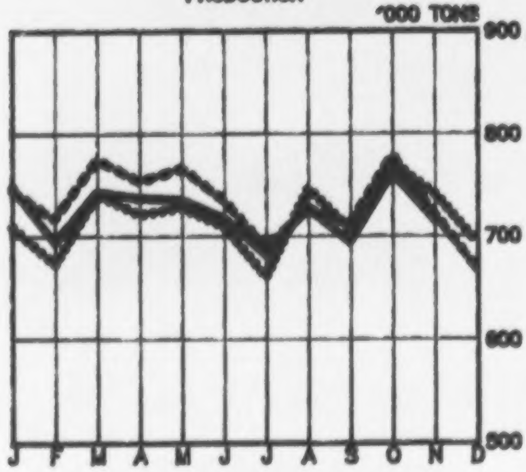
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



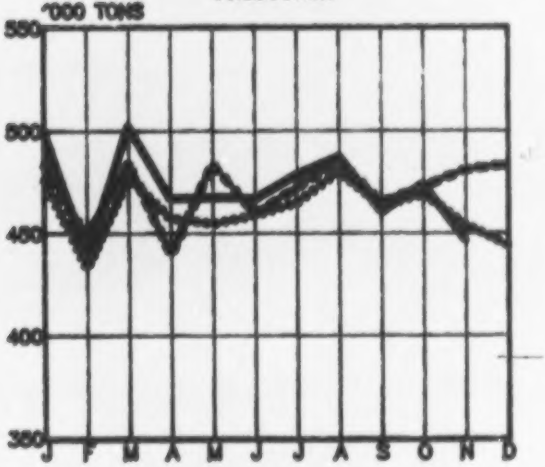
RECYCLED PAPERBOARD

PRODUCTION



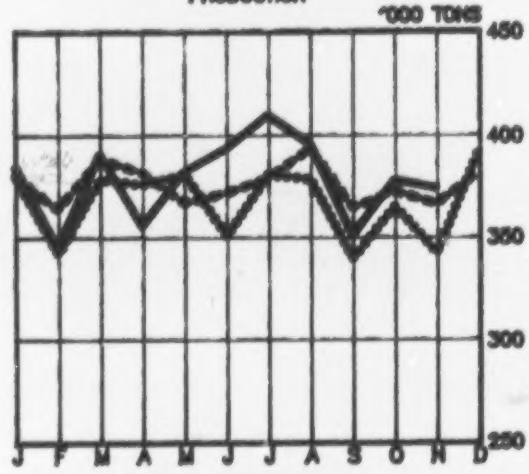
SEMICHEMICAL PAPERBOARD

PRODUCTION



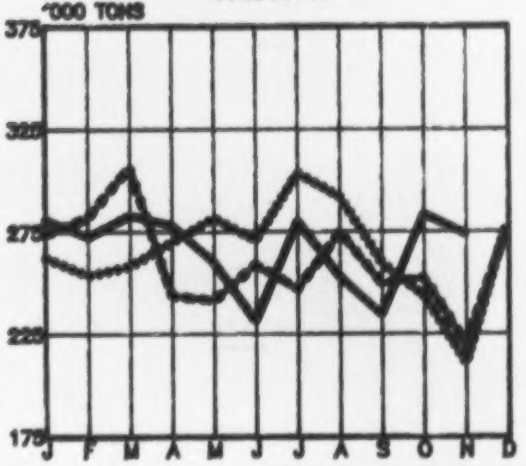
SOLID BLEACHED PAPERBOARD

PRODUCTION



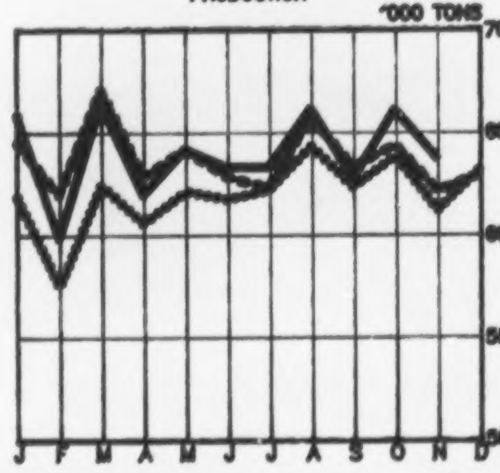
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1987 ········ 1988 ═══════ 1989 ━━━━━━

PULP PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS*

	YEAR 1988 Tons	1988 $000	1989 SEPTEMBER Tons	1989 SEPTEMBER $000	1989 OCTOBER Tons	1989 OCTOBER $000	(1) Annual Rate YTD 1989 Tons	% Change from same Period Last Year
* * * *	*	*	*	* *	*	*	*	*
Pulpwood Roundwood (cords)	39,515	4,200	48,389	850	10,147	160	163,582	267.9
Pulpwood Chips	888,636	35,553	69,344	2,381	50,451	1,823	851,371	-1.6
Total All Imports A	18,402,259	10,725,164	1,516,455	934,514	1,637,312	1,032,608	18,418,899	-0.3
Wood Pulp Total A	5,038,158	2,663,424	428,471	258,616	441,568	267,877	5,062,826	0.5
Waste Paper	161,367	27,361	13,149	2,472	12,097	2,395	178,717	6.7
Other Fibrous Materials	92,505	32,331	467	188	495	227	12,417	-86.9
Paper Board & Products Total A	13,110,229	8,002,047	1,074,367	673,239	1,183,152	762,109	13,164,939	-0.1
Paper Paperboard Wet Machine Bd. & Construction Paper & Board A	12,727,246	7,038,168	1,035,627	585,891	1,143,599	664,109	12,629,506	-1.3
Paper Ppbd & Prds ex Cnst&WMB A	12,787,784	7,893,637	1,060,926	669,537	1,167,773	758,161	12,985,510	0.9
Paper & Paperboard Only A	12,404,801	6,929,757	1,022,187	582,189	1,128,220	660,161	12,430,077	-0.3
Paper Total A	12,063,790	6,799,044	981,874	561,988	1,081,273	636,711	11,883,682	-2.0
Newsprint A	8,801,503	4,569,853	681,142	341,404	735,028	375,788	8,268,849	N.C.
Printing & Writing A	2,859,530	1,948,906	256,588	176,763	296,696	210,738	3,098,705	6.9
Uncoated Groundwood	1,362,642	792,881	151,276	90,641	152,934	93,562	1,627,611	N.C.
Coated Print.& Impreg. Pap. A	797,765	641,466	55,941	46,044	87,679	70,428	777,358	-3.0
Uncoated Free Sheet A	591,830	414,326	40,898	31,004	45,347	35,091	570,812	0.7
Uncoated Book A	258,146	175,746	N.L.R.	N.L.R.	N.L.R.	N.L.R.	N.L.R.	N.L.R.
Writing and Similar Paper A	333,683	238,580	40,898	31,004	45,347	35,091	570,812	80.1
Thin (except Cigarette)	55,774	48,804	3,177	3,094	5,457	5,366	63,994	8.0
Bristols RS	51,519	51,430	5,297	5,980	5,279	6,291	58,930	24.7
Total Pkg & Other Paper	343,196	231,796	33,781	34,284	38,842	40,293	396,805	13.5
Unbleached Kraft Paper	161,708	76,116	19,532	9,816	22,410	10,647	234,706	39.4
Other Pkg. & Indust. Paper	181,488	155,680	14,249	24,468	16,432	29,646	162,099	-10.6
Tissue	59,561	48,488	10,364	9,537	10,707	9,892	119,323	88.1
Paperboard, Total	341,011	130,714	40,313	20,202	46,947	23,450	546,395	59.6
Test or Containerboard	85,682	36,145	5,609	2,466	7,493	3,179	85,554	2.8
Semi-Chemical Corrugating	142,490	43,596	8,478	2,462	8,478	2,456	123,300	-16.6
Other Paperboard	112,839	50,972	26,226	15,274	30,977	17,815	337,541	203.4
Convtd Paper&Paperbd Products	382,983	963,880	38,740	87,347	39,553	98,000	535,433	38.7
Paper Products, Total RS	345,817	895,813	31,511	73,034	31,946	83,818	439,993	26.1
Paperboard Products, Total	37,166	68,067	7,229	14,314	7,608	14,182	95,440	157.3
Wet machine Board	4,239	3,780	52	35	26	31	.556	-87.2
Construction Paper & Board	318,206	104,630	13,389	3,667	15,352	3,917	198,873	-38.1
Notes								
Other: No Weight Avail. ($000)		177,686		12,925		14,825	141,163	-22.2
Total Imports Incl. Other($000)		10,902,850		947,439		1,047,434	11,573,271	6.4

NOTE: A - API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.
RS - 1988 data revised to conform with 1989 codes.

EXPORTS*

							(1)	
Pulpwood, Roundwood (cords)	15,470	894	26,505	329	5,342	359	154,254	732.8
Pulpwood Chips	3,503,100	286,191	389,974	38,817	347,582	33,153	4,444,114	30.2
Total All Exports	17,061,208	7,467,363	1,555,194	742,397	1,523,631	718,478	18,903,136	12.1
Wood Pulp,Total	5,528,292	2,914,521	547,847	318,213	501,763	280,040	6,359,922	16.8
Cotton Pulp and Other Pulp	201,567	111,923	10,496	9,022	11,032	9,831	120,779	-38.8
Waste and Old Paper	5,640,118	688,258	468,618	55,550	452,631	58,178	6,052,531	9.4
Paper, Board & Products,Total	5,691,231	3,752,661	528,234	359,611	558,206	370,430	6,369,904	12.0
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	4,876,563	2,701,405	440,701	250,314	469,536	258,324	5,320,003	9.1
Paper, Ppbd & Prod ex Cnst&WMB	5,559,356	3,683,601	524,928	358,494	554,491	358,949	6,332,609	14.0
Paper & Paperboard, Only	4,744,688	2,632,346	437,395	249,197	465,821	256,843	5,282,709	11.5
Paper, Total	1,102,490	988,031	136,853	105,816	121,773	102,462	1,506,392	39.8
Newsprint	427,296	295,474	62,899	33,580	47,229	25,834	652,823	62.4
Printing & Writing	287,208	313,047	42,661	40,983	44,418	44,302	485,696	N.C.
Uncoated Groundwood	70,286	58,639	7,199	5,277	6,949	5,302	90,977	40.7
Clay Coated Paper	97,464	79,731	15,721	11,807	14,679	12,754	167,032	67.6
Uncoated Free Sheet	82,660	124,049	10,465	13,587	10,919	14,071	99,870	19.8
Other Printing & Writing	36,799	50,629	9,276	10,312	11,872	12,173	127,818	N.C.
Total Pkg. & Other Paper	346,718	342,117	29,262	28,736	28,507	30,001	345,754	-0.5
Unbleached Kraft	110,075	54,975	14,585	7,198	10,008	4,961	124,975	17.7
Other Pkg. & Indust. Paper	236,643	287,142	14,677	21,539	18,500	25,041	220,779	-8.6
Tissue	41,268	37,393	2,030	2,516	1,619	2,325	22,119	-51.1
Paperboard, Total	3,642,198	1,644,314	300,542	143,381	344,048	154,382	3,776,317	8.1
Solid Wood Pulp	3,359,078	1,511,057	281,086	134,817	326,098	145,931	3,583,827	6.1
Total Linerboard	2,281,362	887,846	184,018	68,705	226,317	84,035	2,511,914	10.4
Bleached Kraft Linerboard	140,801	73,728	17,312	8,580	27,540	12,425	276,981	112.9
Unbleached Kraft Linerbd	2,140,562	814,119	166,706	60,125	198,777	71,610	2,234,933	4.2
Other Unbleached Kraft	292,437	102,638	20,781	8,864	27,375	12,595	250,245	-22.6
Other Bleached Kraft	742,918	502,513	71,600	55,236	69,787	48,307	790,585	7.3
Semi-Chemical Corrugating	42,360	18,060	4,687	2,012	2,618	994	31,083	-24.4
Recycled Paperboard	283,121	133,257	19,456	8,564	17,950	8,451	192,489	-32.6
Convtd Paper&Paperbd Products	814,668	1,051,256	87,533	109,297	88,670	112,106	1,049,901	28.8
Paper Products, Total	367,548	682,281	42,751	73,468	37,055	73,571	477,149	30.6
Paperboard Products, Total	447,121	368,975	44,783	35,829	51,615	38,535	572,752	27.2
Wet Machine Board	11,691	4,915	373	151	125	79	3,236	-72.9
Construction Paper & Board E	120,184	64,145	2,933	966	3,590	1,401	34,059	-72.3
Notes								
Other: No Weight Avail. ($000)		9,170		2,326		2,061	23,678	161.8
Total Exports Incl. Other($000)		7,476,533		744,722		720,539	8,767,730	18.4

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description. N.L.R. - No longer reported.
* 1989 Import/Export data based on Harmonized System codes. Detail may not always be comparable to 1988. N.C. - Not Comparable

PRODUCER PRICE INDEXES
1982 = 100

	1987	1988	AUGUST 1989	SEPTEMBER 1989	OCTOBER 1989	NOVEMBER 1989	Annual Rate Y-T-D 1989	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	114.3	124.8	132.9	132.9	133.6	133.6	132.4	6.4
Pulp Paper & Products, ex. Building Grades & ex Waste Paper *	113.2	123.8	132.5	132.4	133.2	133.3	131.9	6.9
Total Wood Pulp	111.5	136.7	159.5	159.5	160.8	160.6	157.2	15.7
Total Paper	111.5	123.2	129.6	129.1	128.6	128.2	129.8	5.7
Total Paper, exc. Newsprint	110.6	123.4	130.1	129.9	129.3	128.8	130.7	6.4
Newsprint	112.3	127.6	122.6	120.1	118.8	118.6	122.9	-3.8
Total Paperboard	118.1	133.2	140.3	140.3	140.0	139.7	140.2	5.5
Total Paper and Paperboard *	113.6	126.4	133.0	132.6	132.2	131.8	133.0	5.6
Converted Products	114.7	123.0	132.2	132.4	134.0	134.5	131.4	7.2
Waste Paper	181.4	183.6	157.3	160.1	158.3	152.5	157.6	-15.2
All Commodities	102.8	106.9	112.0	112.3	112.7	112.7	112.2	5.1
Industrial Commodities	102.6	106.3	111.4	111.9	112.4	112.2	111.5	5.1

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

ANNUAL GROWTH OF PAPER & PAPERBOARD CAPACITY

(000's Short Tons)

	Capacity	Annual Growth (%)
1980	66,368	2.7
1981	68,172	2.7
1982	70,086	2.8
1983	71,126	1.5
1984	73,098	2.8
1985	74,301	1.6
1986	75,777	2.0
1987	78,186	3.2
1988	80,533	3.0
1989 (E)	82,444	2.4
1990 (P)	85,001	3.1
1991 (P)	88,182	3.7
1992 (P)	91,077	3.3

E - Estimate
P - Projection

Source: API Capacity Survey, December, 1989

FIBROUS MATERIALS

U.S. production of chemical paper grade market wood pulp exceeded shipments in November 1989, as it had in every previous month of the year with the exceptions of March and June. The November production level was 453,000 short tons, down from the highs posted in the summer months, but the year-to-date production held 2.2% ahead of its year-ago volume. The capacity-utilization rate in November -- at 87% -- marked a monthly low for the year, although the 11-month 1989 average held at 96%, which equalled its year-ago rate.

Inventories of these grades of wood pulp in the hands of producers, which had been building gradually since mid-year, leaped to 25 days of supply as of the end of November, as opposed to a modest 17 days of supply one year earlier. Pulp consumers, on the other hand, trimmed their inventories to 551,000 short tons as of October 31, bringing them to the lowest level since mid-1988.

Consumption of wood pulp plus waste paper at paper and paperboard mills registered an all-time high of nearly 7 million tons in October 1989, reflecting the relatively strong demand for paper and paperboard evident in that month.

CAPITAL EXPENDITURES

A recently-released report by the U.S. Bureau of the Census confirmed the strength it had been reporting in expenditures on new plant and equipment by paper companies during 1989. Their latest figures showed such expenditures at $15.45 billion, up 36.0% from the $11.36 billion spent in 1988. This gain, by far the largest shown for any of the other manufacturing industry groups, is to be followed by another large increase -- to $17.9 billion --in 1990, according to this same report. While capital is invested for many purposes other than capacity expansion, these record high rates are reflected in the expected gains in capacity to produce paper, paperboard and wood pulp as reported by the API in its recently released Capacity Survey.

PAPER CAPACITY EXPANSION PLANS

U.S. capacity to produce paper and paperboard is slated to increase at an average annual rate of 3.4% in the 1990-92 period, according to the American Paper Institute's 32nd annual Capacity Survey. (See table on page 10.) That anticipated growth pace is an acceleration relative to the 1987-89 period, when paper and paperboard capacity expanded at an average annual rate of 2.9%.

The Capacity Survey indicates that consumption of waste paper will increase nearly twice as rapidly as wood pulp consumption between 1988 and 1992. Specifically, the industry's wood pulp consumption is projected to grow 2.9% a year in that period, compared to the 5.9% a year growth rate expected in consumption of waste paper. In 1992, secondary materials (waste paper plus wood residues) will comprise 56.1% of the industry's total fiber consumption, as compared with 55.1% in 1988.

Paper and paperboard capacity trended up at an average annual rate of 2.5% in the 1980-89 period, which was nearly in line with the rate of increase recorded by paper and paperboard production during the 1980's. With production for last year at an estimated 76.6 million tons, the U.S. paper industry operated at about 93% of capacity in 1989. Although the 1989 operating rate was down from 95.1% in 1987 and 94.9% in 1988, it still exceeded the average operating rate for the 1980-89 period by nearly a percentage point.

Paper capacity is projected to expand 3.3% a year in the 1990-92 period, which compares with 2.9% average annual growth during the past ten years. Total paper production increased at a 2.6% average annual rate from 1980 through 1989. The paper sector of the industry operated at approximately 92.5% of capacity in 1989, versus 94.4% in 1987 and 95.2% in 1988. Operating rates for paper capacity averaged 92.2% during the 1980-89 period.

Total paperboard capacity is projected to expand at an average annual rate of 3.4% during the next three years to a 1992 level of 45.5 million tons. That anticipated rate of expansion is well above the 2.1% average annual growth registered during 1980-89. Operating rates for paperboard capacity eased from 95.7% in 1987 to 94.5% in 1988 and 93.3% in 1989, compared to an average of 91.6% of capacity during the ten year period from 1980 through 1989. The anticipated average annual growth rates (1990-92) for the major paperboard grades are as follows: unbleached kraft, 3.7%; solid bleached, 3.3%; semichemical, 1.7%; and recycled, 4.0%.

The Capacity Survey also points out that total capacity to produce paper and paperboard will increase by 8.6 million tons in the 1990-1992 period. These capacity plans will maintain the U.S. industry's share of world paper and paperboard capacity at the 30% it now holds, reflecting the long-term intentions of the U.S. pulp, paper and paperboard producers to remain world-class participants in both domestic and global paper markets.

Copies of the Capacity Survey have been sent to API member companies. Copies are available to non-members for $325 each, domestically, and $350 overseas, from Capacity Department, Box CMS, American Paper Institute, 260 Madison Avenue, New York, N.Y. 10016.

INDUSTRY FACT SHEET
MONTHLY STATISTICAL SUMMARY INSERT

VOL. 67, NO. 12
DECEMBER, 1989

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

PRODUCTION (000 TONS)

*	(P) NOVEMBER 1989	* OCTOBER 1989	* NOVEMBER 1988	* FIRST 11 1989	* MONTHS' 1988	% CHANGE YR TO DATE 1989/1988
PAPER GRADES						
Newsprint	516	526	493	5,556	5,471	1.6
Printing & Writing	1,825	1,917	1,786	19,818	20,033	-1.1
Uncoated Groundwood (s)	152	167	132	1,630	1,497	8.9
Coated Paper (s)	615	653	605	6,608	6,786	-2.6
Uncoated Free Sheet Paper (s)	942	968	918	10,191	10,346	-1.5
Thin Paper (s)	16	15	20	177	199	-11.0
Cotton Fiber Paper (s)	12	14	13	145	152	-4.6
Bleached Bristols (s)	89	100	98	1,066	1,052	1.3
Tissue Paper	474	489	445	5,176	5,026	3.0
Total Pkg & Other Paper	435	438	425	4,531	4,630	-2.2
Unbl. Kraft Paper (s)	241	239	230	2,465	2,560	-3.7
Other Paper	195	199	195	2,065	2,070	-0.2
TOTAL PAPER	3,250	3,369	3,149	35,080	35,160	-0.2
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,585	1,624	1,495	17,936	17,518	2.4
Unbleached Kraft Linerboard	1,492	1,517	1,396	16,735	16,381	2.2
Other Unbl. Kraft Paperboard	93	107	100	1,201	1,137	5.6
Semichemical Paperboard	447	475	482	5,196	5,180	0.3
Bleached Paperboard	374	378	366	4,160	4,130	0.7
Recycled Paperboard	715	761	721	7,959	8,122	-2.0
TOTAL PAPERBOARD	3,121	3,238	3,064	35,251	34,949	0.9
TOTAL PAPER AND PAPERBOARD	6,370	6,607	6,214	70,332	70,110	0.3

WOOD PULP (ALL GRADES)	OCTOBER 1989	SEPTEMBER 1989	OCTOBER 1988	FIRST 10 1989	MONTHS 1988	% Change 89/88
Dissolving & Special Alpha	109	128	99	1,177	1,128	4.3
Bleached Sulfite)	132	144	137	1,322	1,291	2.5
Unbleached Sulfite)						
Bleached & Semi-Bl. Sulfate	2,283	2,166	2,155	22,717	21,811	4.2
Unbleached Sulfate	1,862	1,760	1,808	18,150	18,082	0.4
Semichemical	379	361	373	3,662	3,625	1.0
Groundwood & Thermomechanical	530	505	513	5,004	4,969	0.7
TOTAL PULP DIVISION DATA	5,295	5,063	5,084	52,033	50,906	2.2

(s) - Shipments
P - Preliminary

December 31, 1989

	Full Year		INDUSTRY DATA 1988 - 1989	R	P	Ann. Rate Year - To - Date	% From Same Pd. Last Year
PAPER AND PAPERBOARD -- Tons (000)	1987	1988	September	October	November	1989	
Total Production (API).......: excluding :...	74,317	76,403	6,270	6,607	6,370	76,725	0.3
Total Seasonally Adjusted....:construction:...			6,284	6,486	6,505	76,702	0.3
Imports (including Products).: and wet :..E	12,528	12,788	1,061	1,168	1,051	12,933	0.8
Exports (including Products).: machine :..E	5,197	5,559	525	554	519	6,323	14.3
Apparent Consumption.........: grades :...	81,648 a	83,631 b	6,820	7,099	7,037	83,336 c	-0.5
Paper Production % Tonnage Capacity............	94.4 g	95.2	93.2	95.2	94.3	92.9	-
Paperboard Production % Tonnage Capacity.......	95.7 g	94.5	91.2	92.4	91.3	93.7	-
			August	September	October		
IMPORTS.....:Including Construction and :...	12,837	13,110	1,227	1,074	1,183	13,165	-0.1
EXPORTS.....: WMB Grades (excl. [illegible]) :...	5,304	5,691	563	528	558	6,370	12.0
MARKET WOOD PULP PRODUCTION - Tons (000).........	8,114	8,565	757	712	682	8,790	3.3
TOTAL WOOD PULP PRODUCTION - Tons (000)..........	59,552	61,161	5,301	5,063	5,295	62,440	2.2
WOOD PULP IMPORTS - TONS (000)...................	4,850	5,038	471	428	442	5,063	0.5
WOOD PULP EXPORTS - TONS (000)...................	4,889	5,528	534	548	502	6,360	16.8
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS : excluding :			August	September	October		
Wood Pulp.............:consumption for:.....	59,475	60,847	5,239	4,997	5,311	61,635	1.3
Waste Paper...........:construction & :.....	17,993	18,860	1,652	1,592	1,678	19,154	1.3
TOTAL..........: WMB grades :.....	77,468	79,707	6,891	6,590	6,989	80,789	1.3
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	93,946	95,497	8,498	8,167	8,331	98,890	3.8
EMPLOYMENT (000)			September	October	November		
Paper and Allied Products..........Total......	680.1	692.6	698.6	698.2	698.5	697.1	0.7
Pulp, Paper and Board Mills........Total.....E	244.9	245.5	247.3	246.1	246.6	247.1	0.6
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			September	October	November		
Paper and Allied Products......................	11.43	11.66	11.99	11.97	12.07	11.91	2.3
Pulp, Paper Mills.........................E	14.01	14.31	14.81	14.86	14.96	14.68	2.8
Paperboard Mills..........................E	14.30	14.49	14.96	14.93	15.12	14.72	1.7
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1989 Q2	1989 Q3	1989 Q4		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	9.01	11.36	14.87	15.82	16.71	15.45 Y	36.0
INDEX OF OUTPUT PER MAN-HOUR (1977=100)..........			September	October	November		
:IN PULP, PAPER :...Production Workers...........	145.0	148.7	145.7	150.9	150.9	149.8	0.6
:AND BOARD MILLS:...All Employees................	141.8	146.1	142.6	147.2	147.1	146.2	0.0
PAPER AND ALLIED PRODUCTS (Million $)			August	September	October		
Industry Shipments (Dept. of Commerce)*........	118,855	127,718	10,885	10,857	10,940	130,676	2.7
Pulp, Paper and Paperboard*....................	51,518	57,177	4,792	4,774	4,738	58,147	2.0
Inventories (End of Period) - Total Industry*..	11,284	12,065	12,572	12,597	12,643	12,643	6.8
Pulp, Paper and Paperboard*....................	4,266	4,325	4,874	4,923	5,014	5,014	19.5
			1989 Q1	1989 Q2	1989 Q3		
Sales (Corporations Only)......................	95,576	107,221 RS	27,281	28,534	28,090	111,873	4.6
Earnings (Corporations Only)...................	5,520	8,081 RS	1,979	2,022	1,850	7,801	-5.2
Depreciation (Corporations Only)...............	4,279	4,625 RS	1,187	1,231	1,247	4,887	6.0
Net Worth (Corporations Only)..................	39,217	42,940 RS	44,093	45,242	46,513	46,513	8.1
PRICE INDEXES (Bureau of Labor Stats)1982=100			September	October	November		
Pulp, Paper & Products, ex. Building Grades....	114.3	124.7	132.9	133.6	133.6	132.4	6.4
Wood Pulp......................................	111.6	136.7	159.5	160.8	160.6	157.2	15.7
Waste Paper....................................	181.4	183.5	160.1	158.3	152.5	157.6	-15.2
Paper..	111.5	123.2	129.1	128.6	128.2	129.8	5.7
Paperboard.....................................	118.1	133.2	140.3	140.0	139.7	140.2	5.5
PAPER DEMAND (INDEXED: 1977=100)			September	October	November		
Total Paper Production *......................	133.4	138.2	136.5	142.4	143.1	138.0	-0.2
Paper New Supply *............................	140.2	144.3	140.1	149.2	145.3	142.2	-1.6
Demand Indicators - (Weighted Average) *.....	154.5	163.7	177.1	177.4	177.6	174.9	7.1
Production of Nondurable Goods *...(21.2%).	136.8	143.9	151.2	152.0	151.7	150.1	4.6
Disposable Income ....*.(23.9%)	130.0	134.9	141.3	141.5	142.3	140.5	4.3
Total Printing and Publishing *...(54.9%).	172.0	183.8	202.7	202.8	203.0	199.5	8.8
Trend Factor				Not Available			
PAPERBOARD DEMAND (INDEXED: 1977=100)							
Total Paperboard Production *.................	129.2	131.6	129.8	132.5	132.7	132.9	0.8
Production for Domestic Use	126.1	129.0	128.2	128.9	129.5	130.1	0.7
Demand Indicators - (Weighted Average) *.....	125.9	132.5	137.1	137.1	137.0	137.0	3.6
Production of Consumer Goods *...(62.06%)	127.7	133.9	138.9	139.5	139.2	139.1	4.2
Production of Equipment *...(5.75%)	148.8	158.2	165.9	161.1	163.1	164.0	3.8
Production of Materials *...(32.19%)	118.3	125.3	128.5	128.2	128.0	128.0	2.4
Trend Factor				Not Available			
NEWSPRINT MARKETS			August	September	October		
Consumption by Publishers - Tons (000)..........	13,583	13,597	1,105	1,139	1,215	13,400	-0.7
Newspaper Pub. and Printing Empl. Total(000)...	471	475	477	476	478	477	0.5
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (PIB, Inc.)...........	164,771	171,845	11,116	17,021	18,565	173,336	3.5
WHOLESALERS SALES AND INVENTORIES (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	44,741	52,377	5,116	4,797	5,157	56,484	8.5
Inventories (End of Period).	3,850	4,436	4,477	4,467	4,541	4,541	3.2
FIBRE BOX DATA (Fibre Box Association)			September	October	November		
Fibre Box Shipments (Million square feet).......	297,827	308,507	25,367	28,965	25,183	315,331	1.4
Container'bd Inventory at Mill & Plant(000Tons).	2,486	2,553	2,643	2,451	2,453	2,453	-1.3
RETAIL TRADE (Billion $)			September	October	November		
Total Retail Sales *...........................	1,511	1,612	145.3	143.4	144.6	1,710	6.4
Nondurable Goods Stores Sales *................	950	998	89.4	89.2	90.0	1,058	6.3
GENERAL ECONOMIC DATA			September	October	November		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1977 = 100)*..	129.8	137.2	142.1	141.3	141.5	141.5	3.4
PRODUCER PRICES(ALL COMMODITIES)(INDEX 1982=100).	102.8	106.9	112.3	112.7	112.7	112.2	5.1
CONSUMER PRICES (ALL ITEMS) (INDEX 1982-4=100)...	113.6	118.3	125.0	125.6	125.9	123.8	4.8
			August	September	October		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $)..	618.2	671.4	706.1	709.6	711.4	711.4	8.9
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$)..			1989 Q1	1989 Q2	1989 Q3		
G.N.P. or Expenditure - Current $...............	4,524	4,881	5,017	5,113	5,202	5,198	7.5
G.N.P. or Expenditure - 1982 $..................	3,854	4,024	4,069	4,107	4,133	4,133	3.1

lb/capita

	Pap&Papbd		Othr		Totl	Popul(mil)
.a -	669	+	17	=	686	243.9
.b -	679	+	17	=	696	246.3
.c -	670	+	17	=	687	248.8

.E - Last month estimated by API

f - Wood Pulp Production excludes def., explo. & scrngs.
g - Adjusted for holiday shutdowns
h - First 3 quarters, annual rate
Q - Quarter

R - Revised
Y - Full year estim. by U.S. Dept. of Com.
RS - Revised Series
* - Seasonally Adjusted.

A2500-2

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol.68 No.1 JANUARY 1990

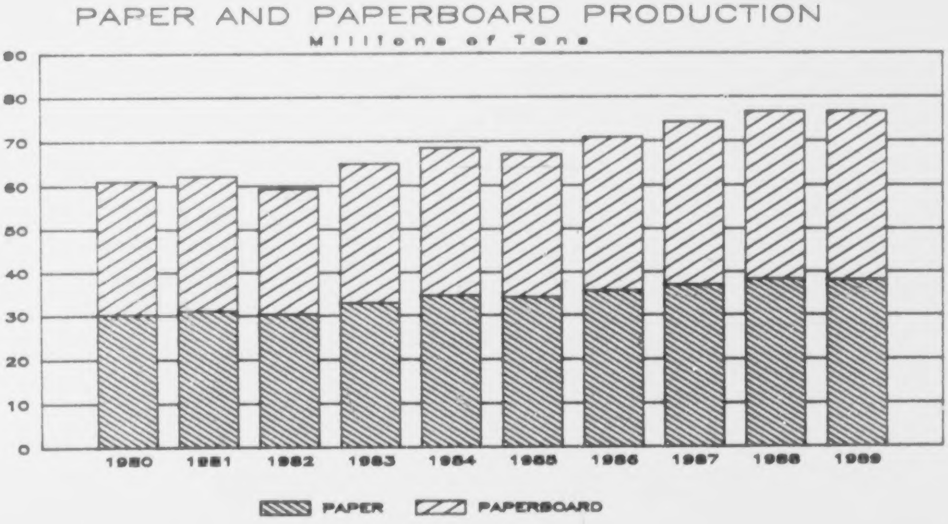
PAPER AND PAPERBOARD PRODUCTION IN 1989

Even in the presence of slower real gross national product growth in the fourth quarter of 1989, the paper and paperboard industry closed out the year on a positive note. Seasonally adjusted fourth quarter production of paper and board edged above its third quarter rate to a high for the year, reflecting a rally in paper production. By a margin of 21,000 tons, 1989 was the fourth consecutive record year for production. The decade ended with the average annual growth of paper production at 2.5% and paperboard at 2.1%. The 1989 paper and paperboard production total of 76,625,000 tons capped a decade-long increase of 15.6 million tons. This growth pattern is pictured in the chart below.

PAPER: The grades primarily responsible for the fourth quarter rally were newsprint, coated papers, and tissue papers.

The total amount of newsprint manufactured in 1989 was 6,088,000 tons, yielding an operating rate of nearly 97%. In addition, 7.7 million tons were imported, accounting for 60% of domestic consumption.

Coated paper production, which was 6.6% behind its year-ago volume as of mid-year, staged an impressive rally in the final six months to cut its deficit to only 2.2% at year-end. Despite this improved performance, the full year operating rate fell to 88.4% from 94.6% in 1988. Imports of coated papers comprised 10% of domestic new supply in 1989 and 1988, compared with just 4% a decade ago.



Copyright © 1990 American Paper Institute 260 Madison Avenue New York, N.Y. 10016

Record production of uncoated groundwood papers eased the U.S.'s dependence on foreign countries to help meet consumption requirements. Imports of these papers accounted for 44% of new supply in 1989, compared with 47% in 1987 and 1988. The capacity utilization rate was 95%, up from 93.6% in 1988.

PAPERBOARD: Among the major grades of paperboard, unbleached kraft production, at 19.5 million tons, advanced 1.8% from its previous high in 1988. Semichemical and bleached kraft paperboard both posted marginal gains in 1989, while recycled production was off 2.3%. If it weren't for a 202,000-ton upward revision in the 1988 data, recycled paperboard production in 1989 would have matched its 1988 total.

Boxboard production grew 1.3% last year, reflecting continuing growth in domestic and export demand. The major boxboard sectors, folding boxboard, milk carton and food service, and set-up, all registered increases in 1989. Demand for bleached and recycled folding boxboard has held steady since mid-1987, while unbleached kraft folding boxboard has generally followed a rising trend and in fact, posted a 6.8% gain in 1989.

Containerboard production for domestic use, at a new high of 23.7 millon tons, was 0.8% above its year ago level. This was consistent with a 1.2% rise in shipments of fiber boxes which brought this total to a record 312 billion square feet. At year-end, inventories were at the lower end of the 2.45 - 2.71 million ton range observed throughout the year.

FIBROUS MATERIALS

U.S. shipments of chemical paper grade market wood pulp in December, at 625,000 short tons, surpassed production by 104,000 tons. Producers reached into inventories which had increased from 13 days of supply at the end of March to 25 days as of November 30. At year-end producers had 19 days of supply on hand.

December's capacity utilization rate of 81% was a monthly low for 1989. The full year average of 95% was down from the 1988 average of 97%. Despite this, U.S. production of chemical paper grade market pulp set a new annual high in 1989. Preliminary data indicates that 1989 production, at 7,231,000 tons, was 0.4% above 1988's high.

On the international scene, the U.S. has strengthened its position as an important supplier of chemical paper grade market pulp. In 1989, Japan and Western Europe increased their reliance on the U.S. for these grades of pulp. The U.S. exported 16% more pulp to Japan in 1989 and 5% more to Western Europe than in 1988. In the past decade, shipments to Japan quadrupled, to 1.1 million

PAPER AND PAPERBOARD STATISTICS

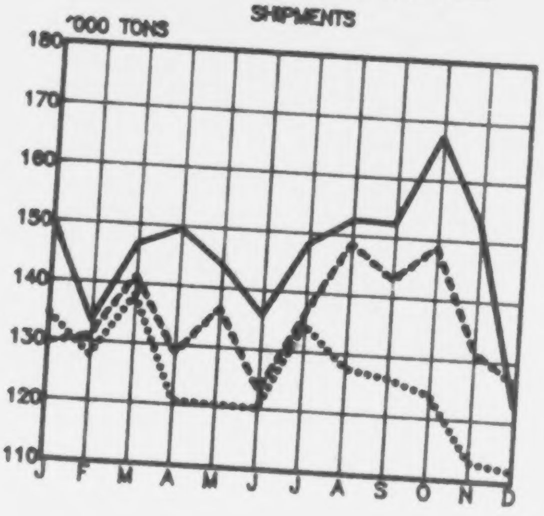
PRODUCTION, SHIPMENTS AND ORDERS
(Thousands of Short Tons)

	YEAR 1987	YEAR 1988	SEPTEMBER 1989	OCTOBER 1989	NOVEMBER 1989 (R)	DECEMBER 1989 (P)	Annual Rate Y-T-D 1989	% Change From same Period Last Year
PAPER								
Newsprint - Production	5,842	5,982	517	526	516	532	6,088	1.8
- Shipments	5,854	5,969	518	526	530	529	6,079	1.8
Printing & Writing Sum	20,778	21,793	1,773	1,917	1,812	1,679	21,484	-1.4
Groundwood Paper - Shipments	1,498	1,624	152	167	153	123	1,754	8.0
- New Orders	1,542	1,654	177	152	129	150	1,784	7.9
-Unfilled Orders	166	208	238	212	196	211	211	1.7
Coated Papers - Shipments	6,860	7,359	611	653	616	585	7,194	-2.2
- New Orders	7,066	7,412	633	667	552	585	7,262	-2.0
- Unfilled Orders	708	751	876	861	832	822	822	9.5
Unctd Free Sheet - Shipments	10,966	11,277	885	968	930	864	11,043	-2.1
- New Orders	11,173	11,298	950	995	967	914	11,132	-1.5
- Unfilled Orders	772	790	701	696	747	784	784	-0.7
Thin Papers - Shipments	240	217	16	15	13	14	189	-12.8
Cotton Fiber Paper - Shipments	163	167	13	14	12	12	157	-6.3
Bleached Bristols - Production	1,052	1,150	95	100	89	82	1,148	-0.1
Tissue Paper - Production	5,301	5,476	473	489	474	460	5,636	2.9
Total Packaging & Other Paper	4,955	5,047	406	437	429	402	4,925	-2.4
Unbl. Kraft Paper - Shipments RS	2,840	2,800	210	239	241	216	2,681	-4.2
Other Paper - Production RS	2,115	2,247	195	198	188	186	2,243	-0.2
TOTAL PAPER-Production-Unadj.	36,876	38,298	3,168	3,368	3,230	3,073	38,133	-0.4
-Production-S.A.			3,167	3,258	3,243	3,086		
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	28,859	29,315	2,408	2,469	2,414	2,413	29,706	1.3
Total Unbl. Kraft Paperboard	18,898	19,140	1,596	1,619	1,580	1,567	19,493	1.8
Unbl. Kraft Linerboard (1)	17,683	17,897	1,495	1,512	1,486	1,475	18,199	1.7
Production for Export	2,303	2,296	174	202	187	224	2,373	3.4
Other Unbl. Kraft Paperboard	1,215	1,244	101	107	94	92	1,293	4.0
Semichemical Paperboard	5,536	5,664	461	472	455	479	5,681	0.3
Production for Export	193	136	8	14	9	12	137	0.2
Solid Bleached Paperboard	4,406	4,511	351	378	379	368	4,532	0.5
Production for Export	619	628	51	65	66	60	683	8.9
Recycled Paperboard	8,601	8,991	708	779	728	653	8,786	-2.3
Production for Export	75	72	1	3	4	3	34	-52.7
TOTAL PAPERBOARD-Prod.-Unadj.	37,442	38,306	3,116	3,247	3,142	3,066	38,492	0.5
- Containerboard Prod.(Dom. Use)	23,025	23,563	1,966	1,970	1,941	1,907	23,746	0.8
- Boxboard Prod.(Dom. Use)	6,969	7,041	562	591	574	530	7,085	0.6
- All Other P'bd Prod.(D.U.)	4,262	4,571	353	402	361	330	4,433	-3.0
- Total Paperbd Prod. for Export	3,190	3,132	235	284	265	300	3,227	3.0
TOTAL PAPERBOARD PROD.- S.A.			3,170	3,228	3,228	3,133	38,450	0.5
TOTAL PAPER AND PAPERBOARD Production - Unadj.	74,318	76,604	6,284	6,616	6,372	6,140	76,625	0.0
Production - S.A.			6,337	6,486	6,471	6,218		

(1)Includes all exports of kraft paperboard. R - Revised P - Preliminary S.A. - Seasonally Adjusted
RS - Revised Series

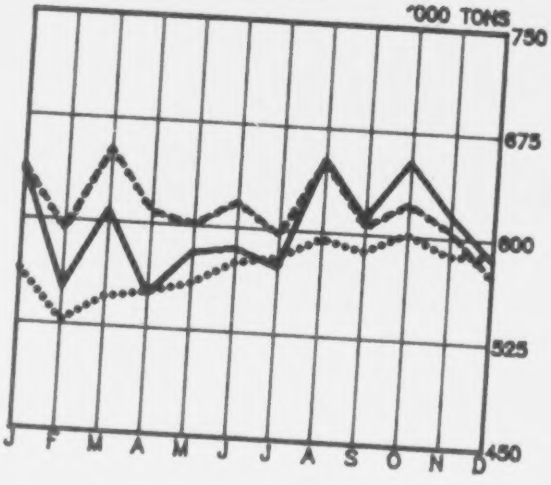
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



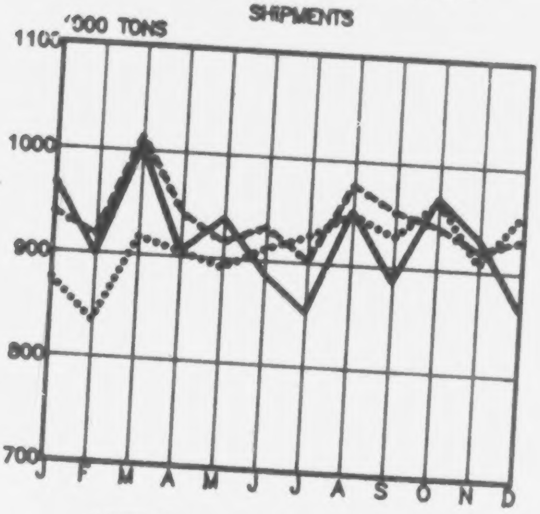
COATED PAPER

SHIPMENTS



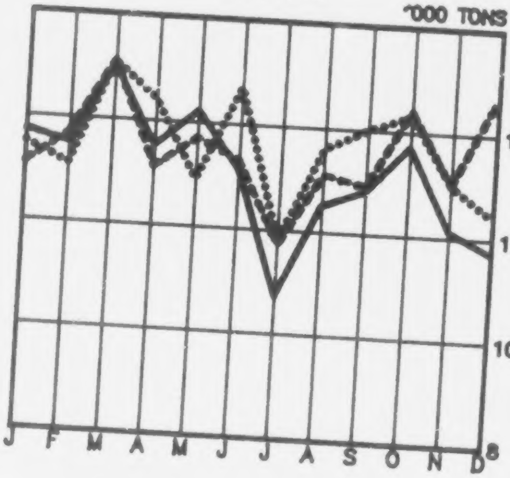
UNCOATED FREE SHEET PAPERS

SHIPMENTS



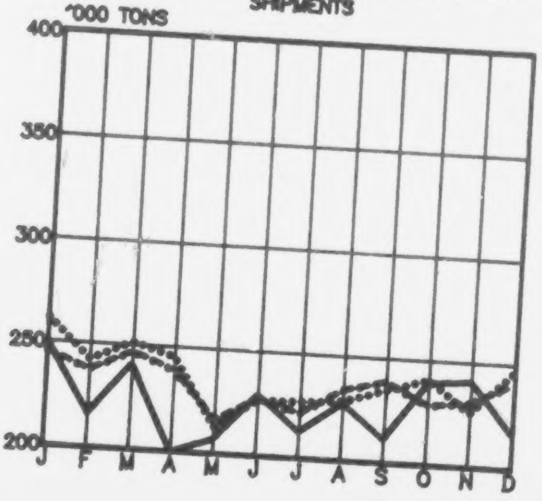
COTTON FIBER PAPER

SHIPMENTS



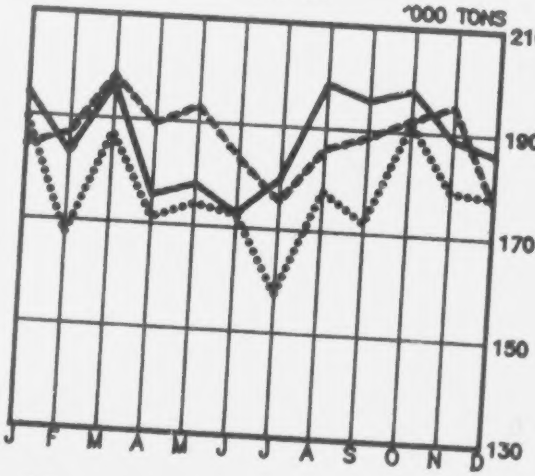
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1987 •••••••• 1988 ▬ ▬ ▬ ▬ 1989 ———

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR 1987	1988	AUGUST 1989	SEPTEMBER 1989	OCTOBER 1989	NOVEMBER 1989	Annual Rate Y-T-D 1989	% Change from same Period Last Year
TOTAL WOOD PULP					R	P		
Total Wood Pulp - Production	59,552	61,161	5,301	5,063	5,295	5,022	62,242	2.1
- Imports	4,850	5,038 A	471	428	442	388	5,025	-0.4
- Exports	4,889	5,528	534	548	502	347	6,160	13.9
- New Supply	59,513	60,671	5,238	4,944	5,234	5,063	61,107	0.8
Dissolving Pulp - Production	1,312	1,367	108	128	109	132	1,429	5.6
- Imports	198	248	28	27	34	11	287	17.9
- Exports	752	865	81	61	67	53	814	-3.9
- New Supply	757	751	55	95	76	90	902	20.3
Paper Grades - Production	48,293	49,493	4,322	4,069	4,277	4,033	50,425	2.3
Chemical Pulp - Imports	4,456	4,419 A	400	365	378	338	4,393	-0.7
- Exports	4,111	4,612	441	484	432	290	5,275	17.0
- New Supply	48,637	49,300	4,281	3,951	4,223	4,081	49,543	0.7
Groundwood and - Production	5,702	5,943	511	505	530	505	6,010	0.9
Thermo-Mech. - Imports	197	371 A	43	36	30	39	345	-8.7
- Exports	26	51	11	3	3	3	71	43.8
- New Supply	5,872	6,263	543	538	556	541	6,285	0.0
Semi-Chemical - Production	4,246	4,358	359	361	379	351	4,378	0.6
- Imports								
- Exports								
- New Supply	4,246	4,358	359	361	379	351	4,378	0.6
MARKET WOOD PULP								
Total Market - Production	8,114	8,565	757	712	682	690	8,743	2.8
Wood Pulp - Imports	3,235	3,471	261	292	290	251	3,336	-3.6
- Exports	4,820	5,071	487	439	396	318	5,245	5.4
- New Supply	6,529	6,966	531	565	576	623	6,834	-2.2
Dissolving Pulp - Production	1,308	1,365	108	127	109	132	1,423	5.4
- Imports	154	206	23	21	24	8	211	4.9
- Exports	775	798	75	76	63	48	795	2.7
- New Supply	687	774	56	73	70	92	839	7.9
Paper Grades - Production	6,806	7,200	649	585	573	557	7,320	2.4
Chemical Pulp - Imports	2,975	3,126	236	265	264	233	3,066	-1.5
- Exports	4,045	4,273	412	363	333	269	4,450	5.9
- New Supply	5,736	6,052	472	487	504	521	5,935	-2.1
Groundwood Pulp - Production	0	0	0	0	0	0	0	0.0
and All Other - Imports RS	106	139	3	5	2	10	60	-60.0
- Exports	0	0	0	0	0	0	0	0.0
- New Supply	106	139	3	5	2	10	60	-60.0

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.
NOTE: A - API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

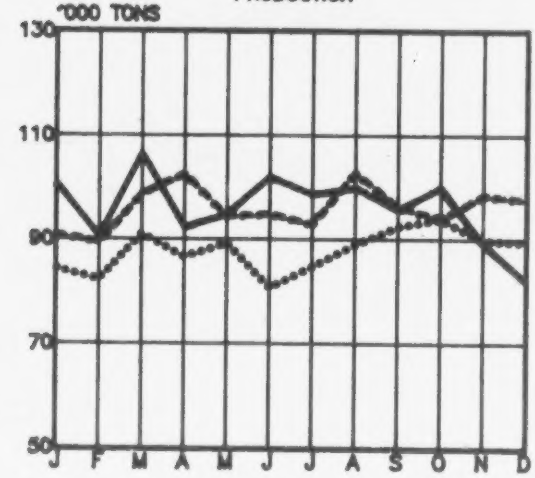
FIBROUS RAW MATERIALS
(Thousands of tons)

	YEAR 1987	1988	AUGUST 1989	SEPTEMBER 1989	OCTOBER 1989	NOVEMBER 1989	Annual Rate Y-T-D 1989	% Change from same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	77,468	79,707	6,965	6,663	7,063	6,656	81,497	2.4
Total Wood Pulp	59,474	60,847	5,239	4,997	5,311	4,981	61,465	1.3
Waste Paper	17,993	18,860	1,726	1,665	1,752	1,676	20,032	5.9
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	170	172	193	205	187	187	187	10.3
Producers' Market Inventories	224	261	353	364	382	445	445	47.8
Consumers' Purchased Inventories #	529	622	591	590	551	529	529	-10.4
Waste Paper at Paper & Bd. Mills	902	1,035	1,096	1,079	1,078	1,109	1,109	10.1
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	12	14	17	19	20	25	25	47.1

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API. # Includes all grades of wood pulp.
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons RS - 1988 Revised Series

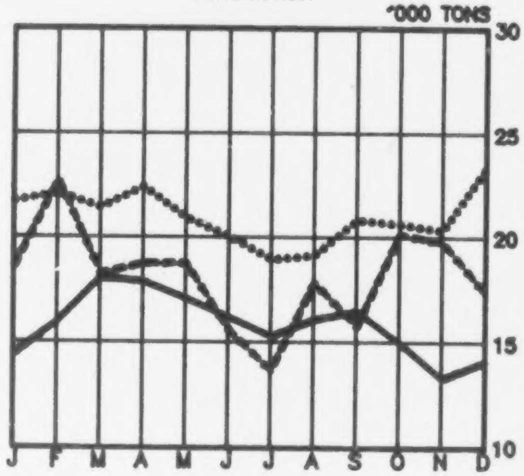
BLEACHED BRISTOLS

PRODUCTION



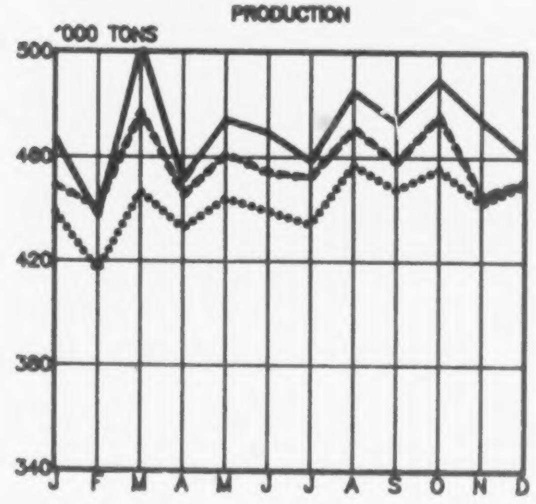
THIN PAPER

PRODUCTION



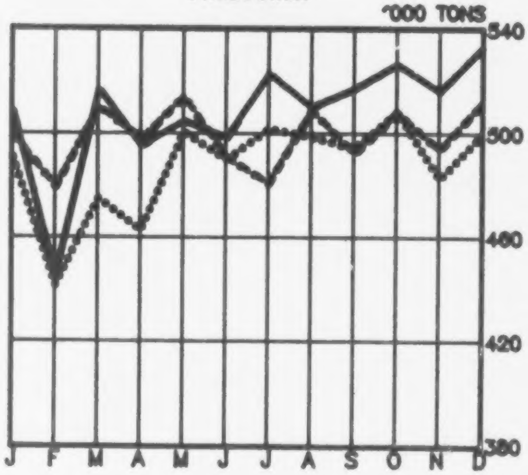
TISSUE PAPER

PRODUCTION



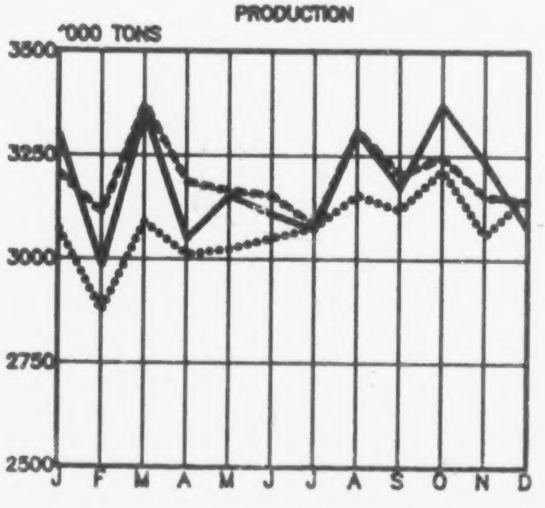
NEWSPRINT

PRODUCTION



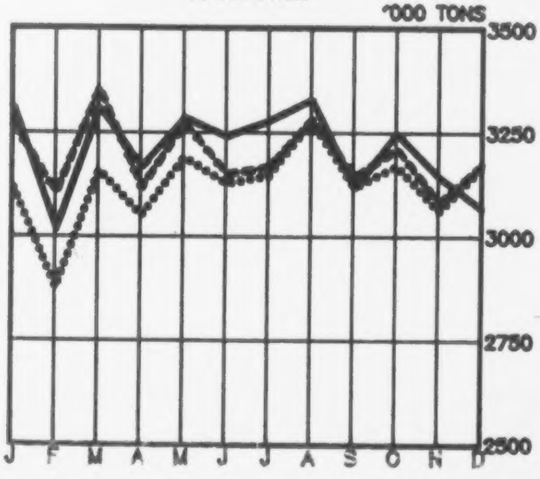
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1987 •••••••• 1988 - - - - - 1989 ———

F I B R O U S R A W M A T E R I A L S

(Thousands of Standard (128 cubic foot) Cords)

PULPWOOD		YEAR 1987	YEAR 1988	AUGUST 1989	SEPTEMBER 1989	OCTOBER 1989	NOVEMBER 1989	Annual Rate Y-T-D 1989	% Change From Same Period Last Year
Total U.S.	- Total Receipts	94,312	95,537	8,946	8,491	8,876	8,202	99,747	4.9
	- Total Consumpt	93,946	95,497	8,498	8,167	8,331	8,070	98,703	3.6
	- Residues *	32,899	33,186	2,983	2,845	3,125	2,806	34,616	4.5
	- Inventories	5,096	4,888	4,415	4,891	5,405	5,581	5,581	16.5
So. Atlantic	- Total Receipts	31,147	31,582	2,778	2,804	2,801	2,609	32,191	2.5
	- Total Consumpt	30,915	31,567	2,684	2,782	2,737	2,529	32,350	2.8
	- Residues *	9,553	9,897	849	821	887	793	9,958	1.3
	- Inventories	1,211	1,200	889	956	956	1,037	1,037	-11.8
Northeast	- Total Receipts	6,941	7,187	628	585	687	558	7,250	2.3
	- Total Consumpt	7,109	7,216	598	583	603	563	7,128	-1.2
	- Residues *	1,543	1,664	146	126	132	118	1,600	-3.0
	- Inventories	594	572	453	444	499	475	475	-6.1
South Central	- Total Receipts	33,650	33,751	3,355	3,119	3,286	3,097	36,057	7.5
	- Total Consumpt	33,059	33,646	3,212	3,020	3,006	3,068	35,891	7.5
	- Residues *	9,992	9,890	936	884	988	946	10,576	7.1
	- Inventories	1,294	1,160	558	1,055	1,398	1,434	1,434	19.9
North Central	- Total Receipts	6,552	6,865	640	602	624	568	7,024	2.9
	- Total Consumpt	6,764	6,929	594	531	592	602	6,984	0.5
	- Residues *	1,263	1,334	106	116	132	138	1,414	5.2
	- Inventories	830	839	829	899	945	909	909	18.4
West	- Total Receipts	16,022	16,152	1,545	1,381	1,478	1,370	17,225	6.2
	- Total Consumpt	16,099	16,139	1,410	1,251	1,393	1,308	16,351	1.0
	- Residues *	10,548	10,401	946	898	986	811	11,067	6.0
	- Inventories	1,167	1,117	1,286	1,537	1,607	1,726	1,726	50.9

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

U N I T E D S T A T E S T R A D E W I T H C A N A D A

IMPORTS FROM CANADA *

	YEAR 1988 Tons	YEAR 1988 ($000's)	OCTOBER 1989 Tons	OCTOBER 1989 ($000)	NOVEMBER 1989 Tons	NOVEMBER 1989 ($000)	Annual Rate Y-T-D 1989 Tons	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	39,337	4,195	10,147	160	52,191	1,028	205,646	410.0
Pulpwood chips	876,038	35,184	50,328	1,793	55,554	1,530	820,252	-3.9
Wood Pulp, Total A	4,340,245	2,282,329	386,880	232,756	354,385	213,996	4,384,939	0.8
Waste Fibrous Materials, Total	227,004	48,450	12,267	2,407	11,497	2,406	165,706	-29.3
Paper, Board & Products, Total A	10,521,785	5,734,562	982,626	546,578	937,708	519,955	11,022,233	2.6
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd. A	10,390,709	5,493,176	968,723	517,649	926,405	493,210	10,836,735	2.1
Paper, Paperboard & Products A	10,307,877	5,668,763	968,695	543,177	924,094	516,342	10,859,914	3.2
Paper & Paperboard, Only A	10,176,801	5,427,377	954,792	514,248	912,791	489,597	10,674,417	2.8
Paper, Total A	9,911,685	5,330,887	917,288	500,258	879,148	476,816	10,253,669	1.4
Newsprint R A	8,284,709	4,320,023	741,691	382,123	708,781	361,694	8,354,622	N.C.
Printing, Writing & Rel. Pap. RSA	1,346,435	842,397	145,687	96,999	138,914	92,797	1,577,097	16.1
Pack. & Ind. Conv. Paper	227,493	120,765	19,604	10,555	20,191	10,944	216,420	-8.3
Special Industrial Paper	4,767	9,106	5,485	6,339	5,436	6,241	48,554	903.0
Tissue Paper	48,281	38,596	4,821	4,242	5,826	5,140	56,975	14.0
Paperboard, Total	265,116	96,490	37,504	13,990	33,643	12,781	420,748	54.8
Convtd Paper&Paperbd Products RS	131,076	241,387	13,903	28,929	11,303	26,745	185,498	38.8
Wet Machine Board	2,939	2,120	3	4	62	52	295	-90.3
Construction Paper & Board	210,970	63,679	13,928	3,397	13,552	3,561	162,023	-26.9

NOTE: A - API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

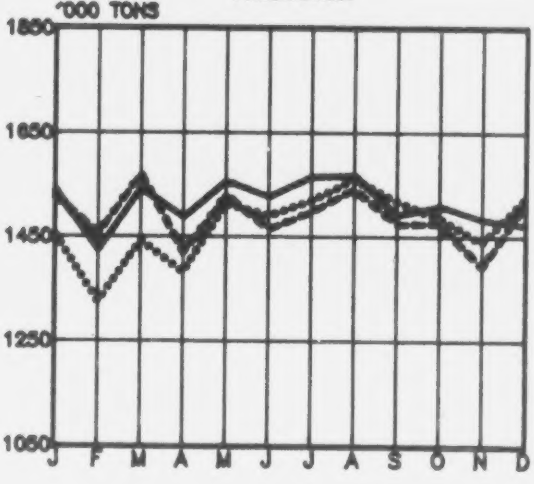
EXPORTS TO CANADA *

Pulpwood, Roundwood (in cords of 128 cubic feet)	14,180	836	2,226	28	996	92	68,609	344.6
Pulpwood chips	33,040	1,739	1,775	48	1,110	51	30,212	-15.1
Wood Pulp, Total	280,074	101,214	35,462	14,100	13,346	5,568	345,930	24.5
Cotton Pulp & Other Pulp	84,891	24,062	612	398	508	382	6,210	-92.0
Waste Paper	331,999	38,199	22,062	3,446	11,468	1,649	284,596	-13.5
Paper, Board & Products, Total	1,050,117	715,960	117,391	77,527	86,335	54,000	1,087,312	2.0
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	773,973	464,416	84,542	50,957	61,471	36,029	756,440	-4.0
Paper, Paperboard & Products	1,013,157	699,127	115,144	76,748	85,691	53,722	1,066,700	3.6
Paper & Paperboard, Only	737,013	447,583	82,294	50,178	60,826	35,751	735,827	-2.2
Paper, Total	340,156	293,175	36,489	32,856	35,718	26,859	371,447	7.9
Newsprint	5,806	5,304	654	324	349	222	8,390	40.3
Printing, Writing & Rel. Pap. R	166,667	160,007	21,999	22,077	23,123	19,057	228,709	34.7
Pack. & Ind. Conv. Paper	41,718	29,572	7,726	3,362	7,716	2,934	63,959	58.2
Special Industrial Paper	118,806	90,276	5,520	6,396	4,231	4,104	63,459	-47.5
Tissue Paper	7,160	8,016	591	696	298	541	6,930	-4.6
Paperboard, Total	396,857	154,408	45,805	17,323	25,108	8,892	364,381	-10.6
Convtd Paper&Paperbd Products R	276,145	251,544	32,849	26,569	24,865	17,971	330,872	19.1
Wet Machine Board	6,527	2,590	55	41	7	3	1,743	-72.7
Construction Paper & Board	30,433	14,243	2,193	738	637	276	18,869	-36.9

SOURCE: Bureau of Census, Department of Commerce . E - Estimate of tonnage based on square foot data RS - Revised Series

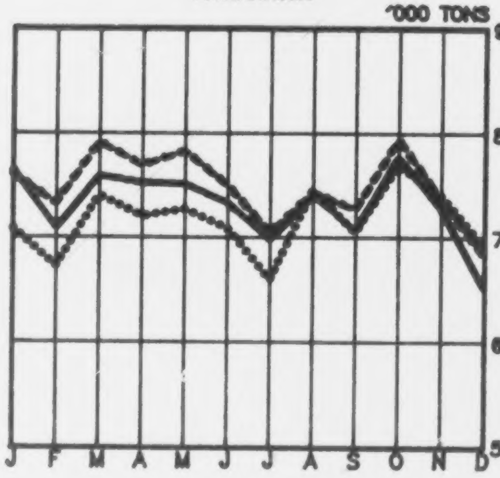
* 1989 Import/Export codes revised to Harmonized System. Detail may not always be comparable to 1988. NC - Not Comparable

R - API Revised grade distribution for 1989.



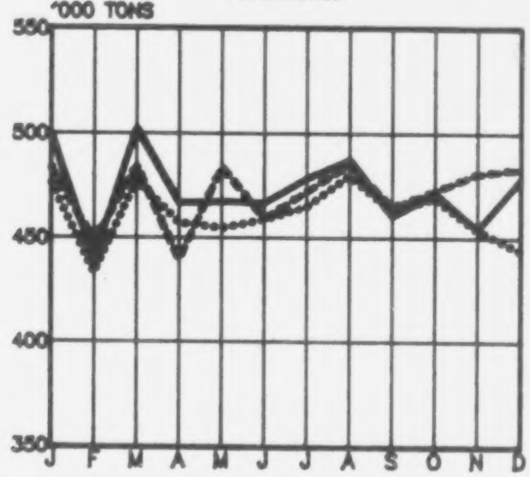
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



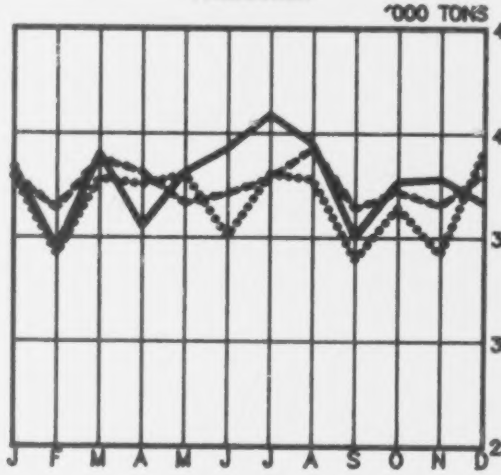
RECYCLED PAPERBOARD

PRODUCTION



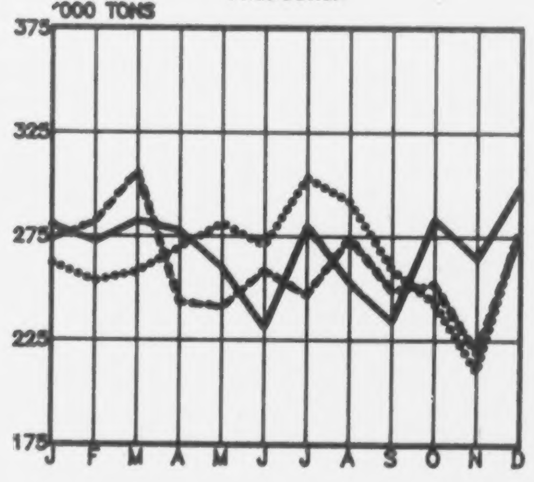
SEMICHEMICAL PAPERBOARD

PRODUCTION



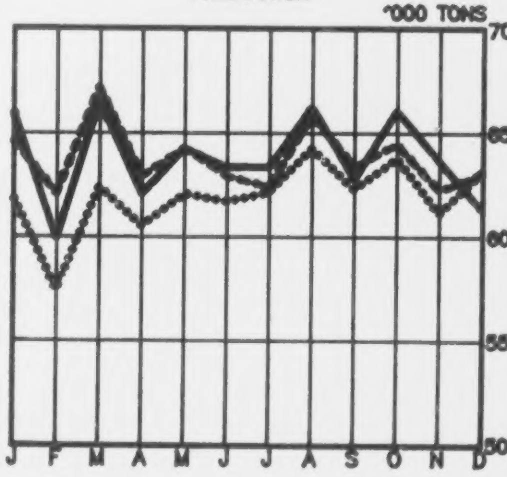
SOLID BLEACHED PAPERBOARD

PRODUCTION



PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION

1987 ········ 1988 -•-•-•- 1989 ———

IMPORTS *

	YEAR 1988 Tons	1988 $000	1989 OCTOBER Tons	1989 OCTOBER $000	1989 NOVEMBER Tons	1989 NOVEMBER $000	(1) Annual Rate YTD 1989 Tons	% Change from same Period Last Year
• • • •	• •	•	•	• •	•	•	•	•
Pulpwood Roundwood (cords)	39,515	4,200	10,147	160	52,191	1,028	205,646	407.6
Pulpwood Chips	888,636	35,553	50,451	1,823	55,576	1,533	834,601	-3.7
Total All Imports A	18,402,259	10,725,164	1,637,312	1,032,608	1,514,760	956,254	18,396,525	-0.4
Wood Pulp Total A	5,038,158	2,663,424	441,568	267,877	387,620	234,786	5,025,428	-0.4
Waste Paper	161,367	27,361	12,097	2,395	11,473	2,339	174,986	6.0
Other Fibrous Materials	92,505	32,331	495	227	664	354	12,012	-87.4
Paper Board & Products Total A	13,110,229	8,002,047	1,183,152	762,109	1,115,003	718,775	13,184,099	0.2
Paper Paperboard Wet Machine Bd. & Construction Paper & Board A	12,727,246	7,038,168	1,139,197	660,026	1,078,817	624,587	12,610,712	-1.3
Paper Ppbd & Prds ex Cnst&WMB A	12,787,784	7,893,637	1,167,773	758,161	1,099,945	714,430	12,986,373	1.2
Paper & Paperboard Only A	12,404,801	6,929,757	1,123,818	656,078	1,063,759	620,243	12,412,985	-0.2
Paper Total A	12,063,790	6,799,044	1,076,871	632,628	1,023,120	599,997	11,871,929	-1.8
Newsprint R A	8,801,503	4,569,853	761,013	390,190	719,577	367,263	8,579,751	N.C.
Printing & Writing A	2,859,530	1,948,906	266,309	192,252	251,666	181,836	2,766,378	-4.5
Uncoated Groundwood R	1,362,642	792,881	126,949	79,159	118,822	74,927	1,331,253	N.C.
Coated Print.& Impreg. Pap. A	797,765	641,466	87,679	70,428	70,269	57,962	783,346	-2.4
Uncoated Free Sheet A	591,830	414,326	45,347	35,091	56,194	40,964	580,223	-0.4
Uncoated Book A	258,146	175,746	N.L.R.	N.L.R.	N.L.R.	N.L.R.	N.L.R.	N.L.R.
Writing and Similar Paper A	333,683	238,580	45,347	35,091	56,194	40,964	580,223	77.6
Thin (except Cigarette) R	55,774	48,804	1,056	1,203	1,276	1,714	12,413	-78.3
Bristols RS	51,519	51,430	5,279	6,291	5,106	6,270	59,143	18.1
Total Pkg & Other Paper	343,196	231,796	38,842	40,293	40,262	40,226	404,654	15.5
Unbleached Kraft Paper	161,708	76,116	22,410	10,647	22,585	11,000	238,007	42.2
Other Pkg. & Indust. Paper	181,488	155,680	16,432	29,646	17,677	29,226	166,647	-8.9
Tissue	59,561	48,488	10,707	9,892	11,614	10,671	121,146	94.7
Paperboard, Total	341,011	130,714	46,947	23,450	40,639	20,246	541,056	55.6
Test or Containerboard	85,682	36,145	7,493	3,179	5,827	2,678	84,133	-2.0
Semi-Chemical Corrugating	142,490	43,596	8,478	2,456	6,875	1,983	119,590	-19.2
Other Paperboard	112,839	50,972	30,977	17,815	27,938	15,585	337,333	195.8
Convtd Paper&Paperbd Products	382,983	963,880	43,955	102,084	36,186	94,187	573,388	48.5
Paper Products, Total RS	345,817	895,813	36,348	87,901	29,305	79,939	479,117	37.3
Paperboard Products, Total	37,166	68,067	7,608	14,182	6,881	14,248	94,270	153.1
Wet machine Board	4,239	3,780	26	31	106	93	621	-85.5
Construction Paper & Board	318,206	104,630	15,352	3,917	14,952	4,251	197,105	-40.0
Notes								
Other: No Weight Avail. ($000)		177,686		14,825		10,537	139,824	-22.4
Total Imports Incl. Other($000)		10,902,850		1,047,434		966,791	11,575,836	6.1

NOTE: A - API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.
RS - 1988 data revised to conform with 1989 codes. R - API revised grade distribution for 1989.

EXPORTS

							(1)	
Pulpwood, Roundwood (cords)	15,470	894	5,342	359	5,317	699	146,031	767.3
Pulpwood Chips	3,503,100	286,191	347,582	33,153	271,389	28,412	4,336,164	28.7
Total All Exports	17,061,208	7,467,363	1,523,631	718,478	1,289,634	578,979	18,591,543	10.4
Wood Pulp,Total	5,528,292	2,914,521	501,763	280,040	346,645	195,928	6,159,906	13.9
Cotton Pulp and Other Pulp	201,567	111,923	11,032	9,831	8,251	6,989	118,800	-39.7
Waste and Old Paper	5,640,118	688,258	452,631	58,178	458,108	56,718	6,002,055	7.5
Paper, Board & Products,Total	5,691,231	3,752,661	558,206	370,430	476,630	319,344	6,310,782	11.4
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	4,876,563	2,701,405	468,252	257,241	399,020	221,575	5,261,418	8.5
Paper, Ppbd & Prod ex Cnst&WMB	5,559,356	3,683,601	554,491	368,949	474,949	318,550	6,275,044	13.5
Paper & Paperboard, Only	4,744,688	2,632,346	464,537	255,760	397,338	220,780	5,225,679	10.8
Paper, Total	1,102,490	988,031	120,490	101,379	114,051	90,422	1,483,624	36.2
Newsprint	427,296	295,474	47,229	25,834	46,100	25,391	643,767	54.0
Printing & Writing	287,208	313,047	43,134	43,219	41,349	37,205	476,407	N.C.
Uncoated Groundwood	70,286	58,639	6,949	5,302	5,503	4,418	88,710	34.6
Clay Coated Paper	97,464	79,731	14,679	12,754	14,770	12,237	167,960	69.8
Uncoated Free Sheet R	82,660	124,049	12,270	16,521	13,478	13,580	117,973	42.3
Other Printing & Writing R	36,799	50,629	9,236	8,641	7,598	6,970	101,765	N.C.
Total Pkg. & Other Paper	346,718	342,117	28,507	30,001	25,617	26,202	342,267	-0.7
Unbleached Kraft	110,075	54,975	10,008	4,961	8,768	4,790	123,179	14.0
Other Pkg. & Indust. Paper	236,643	287,142	18,500	25,041	16,849	21,412	219,088	-7.5
Tissue	41,268	37,393	1,619	2,325	985	1,624	21,182	-51.1
Paperboard, Total	3,642,198	1,644,314	344,048	154,382	283,287	130,358	3,742,056	3.2
Solid Wood Pulp	3,359,078	1,511,057	326,098	145,931	267,632	122,802	3,549,987	6.1
Total Linerboard	2,281,362	887,846	226,317	84,035	181,429	65,790	2,481,480	9.6
Bleached Kraft Linerboard	140,801	73,728	27,540	12,425	24,514	10,843	278,544	113.3
Unbleached Kraft Linerbd	2,140,562	814,119	198,777	71,610	156,915	54,946	2,202,937	3.3
Other Unbleached Kraft	292,437	102,638	27,375	12,595	22,243	8,185	251,761	-17.5
Other Bleached Kraft	742,918	502,513	69,787	48,307	61,606	47,948	785,920	6.7
Semi-Chemical Corrugating	42,360	18,060	2,618	994	2,355	879	30,826	-26.6
Recycled Paperboard	283,121	133,257	17,950	8,451	15,655	7,556	192,068	-31.4
Convtd Paper&Paperbd Products	814,668	1,051,256	89,954	113,189	77,611	97,770	1,049,364	29.1
Paper Products, Total R	367,548	682,281	38,339	74,654	30,612	61,114	477,409	30.4
Paperboard Products, Total	447,121	368,975	51,615	38,535	46,999	36,656	571,955	28.0
Wet Machine Board	11,691	4,915	125	79	54	20	3,000	-74.5
Construction Paper & Board E	120,184	64,145	3,590	1,401	1,628	774	32,738	-73.1
Notes								
Other: No Weight Avail. ($000)		9,170		2,061		2,144	23,864	160.3
Total Exports Incl. Other($000)		7,476,533		720,539		581,123	8,604,615	16.5

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description. N.L.R. - No longer reported.
* 1989 Import/Export data based on Harmonized System codes. Detail may not always be comparable to 1988. N.C. - Not Comparable
R - API revised grade distribution for 1989.

PRODUCER PRICE INDEXES

1982 = 100

	1987	1988	SEPTEMBER 1989	OCTOBER 1989	NOVEMBER 1989	DECEMBER 1989	Annual Rate Y-T-D 1989	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	114.3	124.8	132.9	133.6	133.6	133.5	132.5	6.1
Pulp Paper & Products, ex. Building Grades & ex Waste Paper *	113.2	123.8	132.4	133.2	133.3	133.2	132.0	6.7
Total Wood Pulp	111.5	136.7	159.5	160.8	160.6	159.9	157.5	15.2
Total Paper	111.5	123.2	129.1	128.6	128.2	128.2	129.6	5.2
Total Paper, exc. Newsprint	110.6	123.4	129.9	129.3	128.8	128.7	130.6	5.9
Newsprint	112.3	127.6	120.1	118.8	118.6	117.8	122.3	-4.1
Total Paperboard	118.1	133.2	140.3	140.0	139.7	139.6	140.1	5.2
Total Paper and Paperboard *	113.6	126.4	132.6	132.2	131.8	131.8	132.9	5.2
Converted Products	114.7	123.0	132.4	134.0	134.5	134.5	131.7	7.1
Waste Paper	181.4	183.6	160.1	158.3	152.5	151.4	157.1	-14.4
All Commodities	102.8	106.9	112.3	112.7	112.7	113.0	112.2	4.9
Industrial Commodities	102.6	106.3	111.9	112.4	112.2	112.3	111.6	5.0

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

Paper and Allied Products Companies

Sales and Earnings

	Sales			Net Profit After Taxes			Net Profits / Sales	
	1989	1988	89/88	1989	1988	89/88	1989	1988
	(Thousand Dollars)		%	(Thousand Dollars)		%	%	%
		19	Paper and Allied Products Companies					
First Quarter	14,817,485	13,463,955	10.1	1,188,878	998,916	19.0	8.02	7.42
Second Quarter	15,569,108	13,923,480	11.8	1,212,779	1,103,917	9.9	7.79	7.93
Third Quarter	15,320,263	14,209,642	7.8	1,232,333	1,323,748	-6.9	8.04	9.32
Fourth Quarter	15,383,829	14,637,836	5.1	1,060,154	1,178,891	-10.1	6.89	8.05
Year-to-date	61,090,685	56,234,913	8.6	4,694,144	4,605,472	1.9	7.68	8.19
			3	Forest Product Companies				
First Quarter	3,061,503	2,644,731	15.8	203,337	142,257	42.9	6.64	5.38
Second Quarter	3,327,657	3,014,155	10.4	231,555	163,859	41.3	6.96	5.44
Third Quarter	3,318,176	3,007,214	10.3	242,724	159,279	52.4	7.31	5.30
Fourth Quarter	3,091,922	3,157,280	-2.1	219,621	168,749	30.1	7.10	5.34
Year-to-date	12,799,258	11,823,380	8.3	897,237	634,144	41.5	7.01	5.36

tons. The U.S. is now virtually tied with Canada in exports to Japan. U.S. shipments to the domestic market declined 8% from 1988 to 1989, probably reflecting the decline in printing-writing paper production.

SALES AND EARNINGS

Sales of paper and allied products companies in the fourth quarter of 1989, as estimated from data reported for 19 companies, held close to their third quarter 1989 level, reflecting the corresponding trend in paper and paperboard production. Relative to their year-ago performance, however, sales showed a 5% gain.

After-tax profits for these companies dropped 14% from their third quarter total and 10% from their fourth quarter 1988 level. Even at this lower level, the ratio of after-tax profits to sales was 6.9%, a relatively high level by historic standards.

These data indicate a relatively strong performance for 1989 as a whole. The totals suggest that sales rose by 8.6% from 1988 to 1989, after-tax profits rose 2%, and the ratio of net profits to sales was a near-record high of 7.7%.

The table on page 10 presents the available data. These figures should be considered preliminary, in that there are 27 companies in the full complement of reporting companies, and these companies generally show slightly stronger sales and earnings trends than are reported by the Department of Commerce for the total paper and allied products industry.

PAPER RECYCLING TRENDS

Preliminary data indicate that U.S. collection of waste paper increased 5.4% in 1989 -- a particularly impressive performance given that paper and paper board new supply dipped 0.7% last year, while domestic production rose only fractionally. Waste paper collection advanced 6.7% in 1987 and 8.9% in 1988, both of which were strong growth years for the paper and allied products industry.

Consumption of waste paper stock by the paper industry increased an estimated 5% in 1989, which lifted the domestic consumption rate for recyclable paper to 26.4% from 25.2% in 1988. The domestic consumption rate (defined as consumption of waste paper as a percentage of paper and paperboard production) has trended strongly upwards since 1985 when it stood at 23.8%. Moreover, API's 1989 Capacity Survey reports that the paper industry will derive an increasing percentage of its fiber needs from waste paper in the future. The Survey indicates that waste paper consumption in U.S. paper and paperboard mills will climb at an average annual rate of 6.2% a year in the 1990-1992 period, while wood pulp consumption is projected to rise 2.9% a year.

Old corrugated accounts for nearly half of U.S. waste paper consumption; in 1989 domestic usage of this grade rose 6.1% to 10.5 million tons. Some 94% of old corrugated is used to produce paperboard -- recycled, unbleached kraft, and semichemical. The remainder goes into tissue and construction paper and board.

Domestic consumption of old newspapers rose 3.6% in 1989 to 3.85 million tons. Approximately 45% of this grade is used to make newsprint, while 40% is consumed by recycled paperboard mills. U.S. consumption of pulp substitutes rose 3.1% in 1989 to 2.98 million tons, while domestic consumption of high grade deinking papers also rose 3.1%, to 1.7 million tons. Important end uses for the high grades are tissue papers, printing-writing papers and recycled boxboard. Consumption of mixed waste papers by U.S. mills edged up 1.3% last year. Mixed papers are a source of fiber for recycled paperboard and construction papers and board.

The recovery rate for waste paper (waste paper collection as a percent of new supply of paper and paperboard) advanced to an estimated 32.6% in 1989, from 30.7% the previous year, continuing the strong pattern of advance that has been evident since 1986.

The 5.4% increase in waste paper consumption estimated to have taken place in 1989 derived from a 4.4% gain in domestic demand and a 7.5% increase in exports. Exports of old corrugated, the largest U.S. waste paper export category, is estimated to have increased 21.5% last year, to 272,000 tons. On the other hand, exports of high grade deinking papers were off some 12%, perhaps as a result of strong domestic demand for the high grades.

Commerce Department data suggest that total 1989 exports of waste paper will come in at about 6.1 million tons. However, the government figures are known to understate waste paper exports to Canada by almost a 1/2-million tons, suggesting that the actual 1989 level was about 6.5 million tons.

A2500-2

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol.68 No.2 FEBRUARY 1990

PAPER AND PAPERBOARD PRODUCTION ENTERING 1990 AT A STEADY PACE

Despite the marked slowdown of total economic growth, paper and paperboard production continued along the high, but level, path it has been following during the past two years. January 1990 output exceeded 6.6 million tons, equivalent to a seasonally adjusted annual rate of 77.4 million tons. This was slightly above its year-ago level, and compares with the 76.5 million tons recorded in 1988 and 1989. Paper and paperboard production did falter in the late weeks of 1989, but much of that weakness can be traced to the extremely cold weather in many paper making-states.

Paper: Paper production posted a 1.6% seasonally adjusted gain in January, compared to year-ago levels. All major grades, except kraft papers, turned in a positive performance.

Some current production trends reflect additional capacity that came on-stream in recent months. Newsprint production, for example, which was nearly 10% above its year-ago level in January 1990, includes tonnages for two new mills that were not in production one year ago. In the printing-writing paper grades, however, capacity expanded less than 2% during the past twelve months, and operating rates are presently fluctuating closely about the 94% level.

Among the other paper grades, tissue paper production remained strong in January 1990, with preliminary data indicating a sizable increase over its year-ago total. Specialty packaging and special industrial papers enjoyed modest production gains, but shipments of unbleached kraft papers moved back to the lower levels of its recent range. However, inventories of kraft paper held by converters were reduced significantly in January. The production and shipments trends for the separate paper grades are graphed on pages 4 and 6.

Paperboard: Paperboard production has also traced a relatively flat trend during the past two years with little evidence of significant changes in levels of inventories in the

Copyright © 1990 American Paper Institute 260 Madison Avenue New York, N.Y. 10016

hands of users. The January 1990 production total just matched its year-ago level. Gains in unbleached kraft paperboard, largely the result of a major increase in production destined for export, offset declines in the semichemical and recycled grades.

The paperboard data presented in the table on page 3 have been greatly expanded. The table now includes data on linerboard and corrugating medium by furnish, reflecting the heightened interest in waste paper as a paper-making fiber. The January 1990 recycled linerboard production total was well below its year-ago level, but production of recycled corrugating medium showed a 3.4% gain.

Similarly, the table presents data on folding boxboard production by furnish. Here the January recycled folding boxboard production total is shown to be 6% above its year-ago level, offsetting declines in the solid bleached and unbleached kraft grades.

WASTE PAPER

The increasing interest in waste paper as a fibrous raw material in paper-making is evident in the newly available 1989 data. Total consumption of waste paper at paper and paperboard mills -- including the wet machine board and construction grades* -- was a record-high 20,665,000 tons in 1989, 5% above its 1988 level. This brought the ratio of waste paper consumption to the total production of paper, paperboard, wet machine board, construction paper and insulating board to 26.5%. In 1985 that ratio was 23.8%; in the 15 years before that it held in the 22.8-23.8% range.

Collection of waste paper has also been affected by increases in uses outside the paper industry. Earlier estimates had indicated that about 500,000 tons per year were used for such purposes as molded pulp (about 200,000 tons per year) packaging protection, and insulating. New studies indicate that markets have also developed in use of waste paper as a mulch and as a bedding for animals, raising the estimated total for other uses above 700,000 tons per year.

The fastest growth in waste paper demand, however, has been in exports. In particular, mills in the Far East have been coming into operation depending on waste paper for their fibrous raw material. Waste paper exports in 1989 climbed to a record-high 6.3 million tons, 6% above their 1988 level and 2.6 times the 1979 rate. This total includes 611,000 tons of waste paper exported to Canada in 1989 as reported by the Canadian Pulp and Paper Association, which is about 300,000 tons greater than the figure reported by the U.S. Census Bureau for waste paper exports to Canada.

---

*These grades are excluded from the waste paper consumption data at paper and paperboard mills reported in the table on page 5.

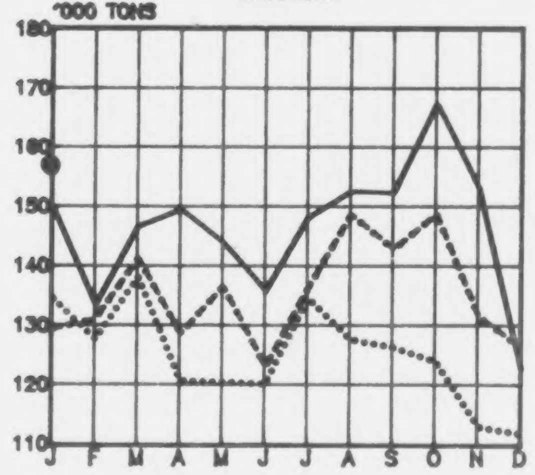
Continued on Page 11

PAPER AND PAPERBOARD STATISTICS PRODUCTION, SHIPMENTS AND ORDERS (Thousands of Tons)	YEAR 1988	1989	OCT 1989	NOV 1989	DEC R 1989	JAN P 1990	Annual Rate Y–T–D 1990	% Change From Same Period Last Year
PAPER								
Newsprint – Production	5,982	6,088	526	516	532	556	6,671	9.6
– Shipments	5,969	6,079	526	530	529	548	6,576	13.8
Printing & Writing: Total Shipments	21,857	21,540	1,921	1,816	1,684	1,898	22,777	0.9
Groundwood Paper – Shipments	1,824	1,754	167	153	123	157	1,889	5.3
– New Orders	1,854	1,784	152	129	150	162	1,948	14.8
– Unfilled Orders	208	211	212	198	211	224	2,689	21.2
Coated Papers – Shipments	7,359	7,194	653	616	585	638	7,654	0.6
– New Orders	7,412	7,262	667	552	585	606	7,277	2.9
– Unfilled Orders	751	822	861	832	822	786	9,430	15.9
Unctd Free Sheet – Shipments	11,277	11,043	968	930	864	972	11,662	0.7
– New Orders	11,298	11,132	995	967	914	936	11,234	1.1
– Unfilled Orders	790	784	696	747	784	740	8,879	11.5
Thin Papers – Shipments	281	245	19	17	18	18	213	–4.9
Cotton Fiber Paper – Shipments	167	157	14	12	12	13	160	–2.6
Bleached Bristols – Shipments	1,150	1,148	100	89	82	100	1,200	–0.1
Tissue Paper – Production	5,476	5,636	489	474	460	490	5,882	5.2
Total Packaging & Other Paper	5,047	4,925	437	429	402	414	4,970	–6.4
Unbl. Kraft Paper – Shipments	2,800	2,681	239	241	216	216	2,592	–13.1
Other Paper – Production	2,247	2,243	198	188	186	198	2,378	2.2
TOTAL PAPER PRODUCTION – UNADJUSTED	38,363	38,189	3,373	3,234	3,077	3,358	40,300	1.9
TOTAL PAPER PRODUCTION – SEAS ADJ			3,262	3,247	3,090	3,272	39,267	1.6
PAPERBOARD – PRODUCTION								
Containerboard	26,225	26,425	2,198	2,145	2,160	2,283	27,390	0.9
Cont'bd For Dom Use for Fibre Boxes	23,563	23,742	1,970	1,941	1,906	2,025	24,304	0.2
Total Linerboard	16,177	16,392	1,356	1,339	1,289	1,388	16,650	0.5
Unbleached Kraft	15,601	15,827	1,310	1,299	1,251	1,350	16,198	1.2
Solid Bleached	170	177	13	13	10	13	151	–13.1
Recycled	407	388	33	26	29	25	301	–22.0
Corrugating Medium	7,351	7,335	614	601	617	637	7,643	–0.2
Semichemical	5,528	5,545	458	446	467	478	5,732	–1.3
Recycled	1,823	1,791	156	155	150	159	1,910	3.4
Container Chip and Filler	35	14	1	1	1	1	11	–59.1
Other Containerboard for Dom Use	320	307	25	19	27	23	281	–14.6
Containerboard for Export	2,342	2,377	202	185	227	234	2,806	9.4
Boxboard	11,879	11,873	1,034	981	893	1,002	12,024	–2.2
Boxboard for Packaging for Dom Use	7,014	7,059	588	572	527	607	7,289	–0.4
Folding Boxboard	5,293	5,334	452	437	390	461	5,528	0.3
Solid Bleached	2,017	1,992	164	167	151	163	1,961	–3.5
Unbleached Kraft	924	987	82	74	65	86	1,033	–4.4
Recycled	2,352	2,355	206	196	174	211	2,534	5.8
Set–up Boxboard for Dom Use	279	284	23	22	19	26	314	0.4
Milk Carton & Food Service Dom Use	1,442	1,441	113	112	119	121	1,446	–3.1
Other Boxboard for Domestic Use	4,076	3,963	362	329	291	322	3,862	–7.5
Boxboard for Export	789	852	83	80	74	73	874	7.7
Paperboard Production by Furnish	38,104	38,299	3,230	3,126	3,053	3,285	39,414	–0.1
Unbleached Kraft	19,140	19,493	1,619	1,580	1,567	1,685	20,225	1.7
Semichemical	5,664	5,681	472	455	479	490	5,874	–2.0
Solid Bleached Kraft	4,511	4,532	378	379	368	384	4,613	0.0
Recycled	8,789	8,592	761	713	639	725	8,702	–2.9
Paperboard Production for Export	3,132	3,227	284	265	300	306	3,676	8.9
Unbleached Kraft	2,298	2,373	202	187	224	226	2,713	10.2
Semichemical	136	137	14	9	12	12	142	–24.8
Bleached Kraft	628	683	65	66	60	64	768	12.5
Recycled	72	34	3	4	3	4	53	31.8
TOTAL PAPERBOARD PRODUCTION – UNADJ	38,104	38,299	3,230	3,126	3,053	3,285	39,414	–0.1
TOTAL PAPERBOARD PROD – SEAS ADJ			3,211	3,212	3,119	3,178	38,140	–0.7
PAPER AND PAPERBOARD – UNADJ	76,467	76,488	6,603	6,361	6,130	6,643	79,714	0.9
PAPER AND PAPERBOARD – SEAS ADJ			6,473	6,459	6,209	6,451	77,407	0.4

R – Revised   P – Preliminary   Seas. Adj. – Seasonally Adjusted   Unadj – Not Seasonally Adjusted

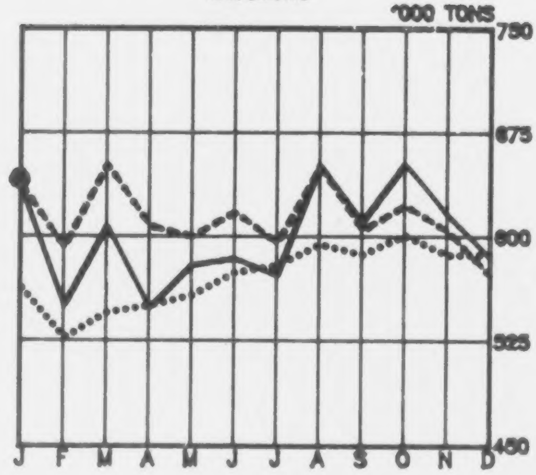
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



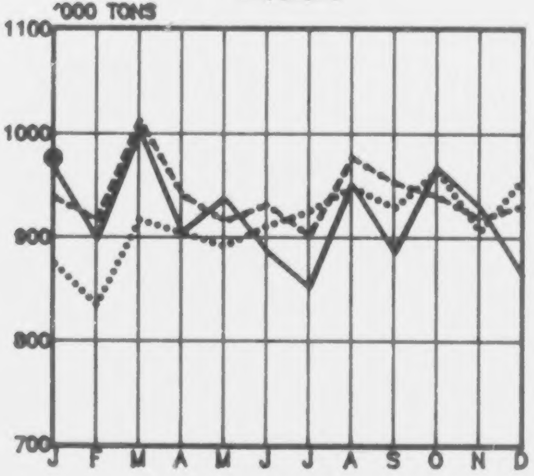
COATED PAPER

SHIPMENTS



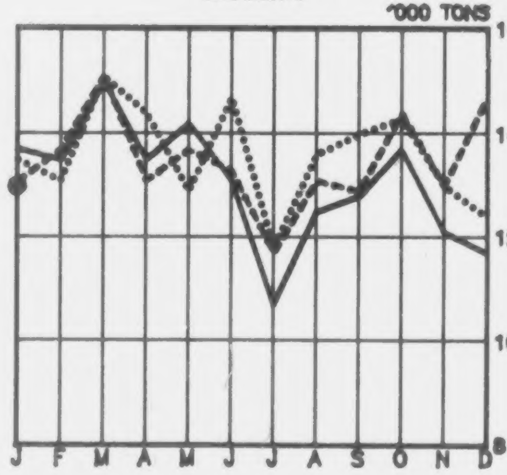
UNCOATED FREE SHEET PAPERS

SHIPMENTS



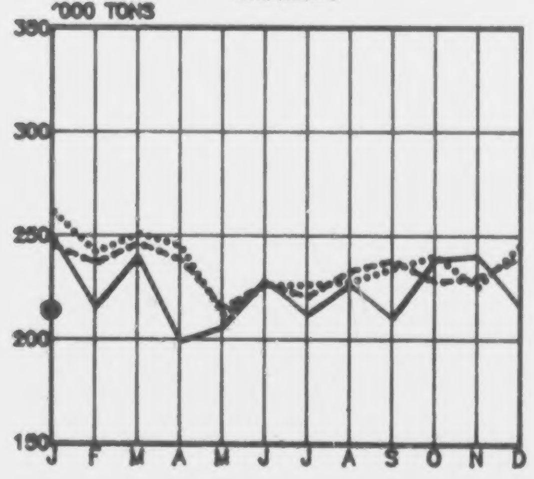
COTTON FIBER PAPER

SHIPMENTS



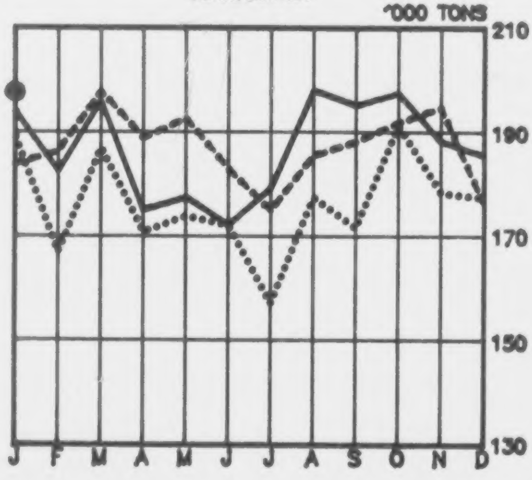
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1987 ········ 1988 ------ 1989 ——— Jan 1990 ●

WOOD PULP STATISTICS

(Thousands of Tons)

		YEAR 1987	YEAR 1988	SEPTEMBER 1989	OCTOBER 1989	NOVEMBER 1989	DECEMBER 1989	Annual Rate Y-T-D 1989	% Change from same Period Last Year
TOTAL WOOD PULP						R	P		
Total Wood Pulp	- Production	59,552	61,161	5,063	5,295	5,021	4,969	62,023	1.4
	- Imports	4,850	5,038 A	428	442	388	398	5,005	-0.7
	- Exports	4,889	5,528	548	502	347	585	6,231	12.7
	- New Supply	59,513	60,671	4,944	5,234	5,062	4,783	60,797	0.2
Dissolving Pulp	- Production	1,312	1,367	128	109	133	117	1,427	4.4
	- Imports	198	248	27	34	11	21	284	14.3
	- Exports	752	865	61	67	53	90	836	-3.3
	- New Supply	757	751	95	76	90	48	875	16.5
Paper Grades Chemical Pulp	- Production	48,293	49,493	4,069	4,277	4,032	3,973	50,194	1.4
	- Imports	4,456	4,419 A	365	378	338	343	4,370	-1.1
	- Exports	4,111	4,612	484	432	290	490	5,325	15.5
	- New Supply	48,637	49,300	3,951	4,223	4,079	3,826	49,239	-0.1
Groundwood and Thermo-Mech.	- Production	5,702	5,943	505	530	505	523	6,032	1.5
	- Imports	197	371 A	36	30	39	34	351	-5.5
	- Exports	26	51	3	3	3	5	70	37.5
	- New Supply	5,872	6,263	538	556	541	552	6,313	0.8
Semi-Chemical	- Production	4,246	4,358	361	379	351	357	4,370	0.3
	- Imports								
	- Exports								
	- New Supply	4,246	4,358	361	379	351	357	4,370	0.3
MARKET WOOD PULP									
Total Market Wood Pulp	- Production	8,114	8,565	712	682	691	648	8,664	1.2
	- Imports	3,235	3,471	292	290	251	282	3,340	-3.8
	- Exports	4,820	5,071	439	396	318	501	5,309	4.7
	- New Supply	6,529	6,966	565	576	624	429	6,694	-3.9
Dissolving Pulp	- Production	1,308	1,365	127	109	132	117	1,422	4.1
	- Imports	154	206	21	24	8	17	210	1.7
	- Exports	775	798	76	63	48	94	823	3.2
	- New Supply	687	774	73	70	92	39	809	4.5
Paper Grades Chemical Pulp	- Production	6,806	7,200	585	573	558	531	7,242	0.6
	- Imports	2,975	3,126	265	264	233	261	3,072	-1.7
	- Exports	4,045	4,273	363	333	269	407	4,486	5.0
	- New Supply	5,736	6,052	487	504	522	386	5,828	-3.7
Groundwood Pulp and All Other	- Production	0	0	0	0	0	0	0	0.0
	- Imports RS	106	139	5	2	10	3	58	-58.2
	- Exports	0	0	0	0	0	0	0	0.0
	- New Supply	106	139	5	2	10	3	58	-58.2

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

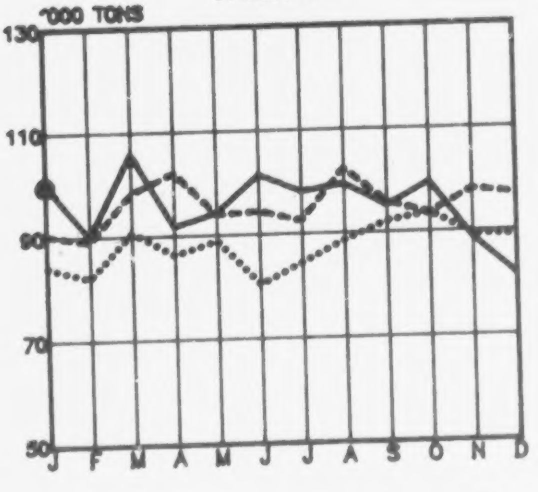
NOTE: A - API shifted Import data from January 1989 to December 1988 to **compensate** for misallocation of reported data.

FIBROUS RAW MATERIALS

(Thousands of tons)

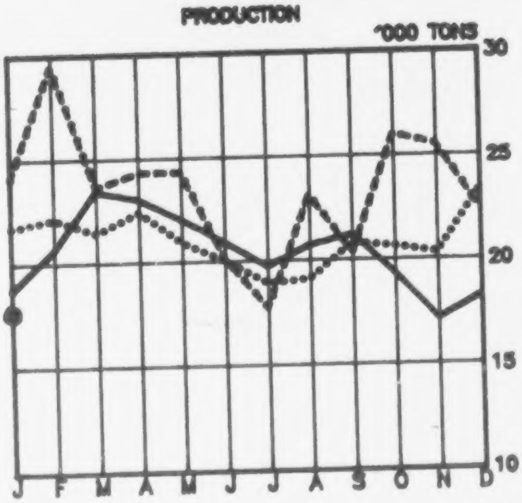
	YEAR 1987	YEAR 1988	SEPTEMBER 1989	OCTOBER 1989	NOVEMBER 1989	DECEMBER 1989	Annual Rate Y-T-D 1989	% Change from same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	77,467	79,868	6,666	7,070	6,652	6,561	81,303	1.8
Total Wood Pulp	59,474	60,847	4,997	5,311	4,979	4,968	61,309	0.8
Waste Paper	17,993	19,021	1,669	1,760	1,674	1,593	19,994	5.1
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	170	172	205	187	188	193	193	12.2
Producers' Market Inventories	224	261	364	382	446	343	343	31.4
Consumers' Purchased Inventories #	529	622	590	551	529	519	519	-16.5
Waste Paper at Paper & Bd. Mills	903	1,044	1,083	1,082	1,111	1,093	1,093	4.8
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	12	14	19	20	25	19	19	35.7

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API. # Includes all grades of wood pulp.
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons RS - 1988 Revised Series



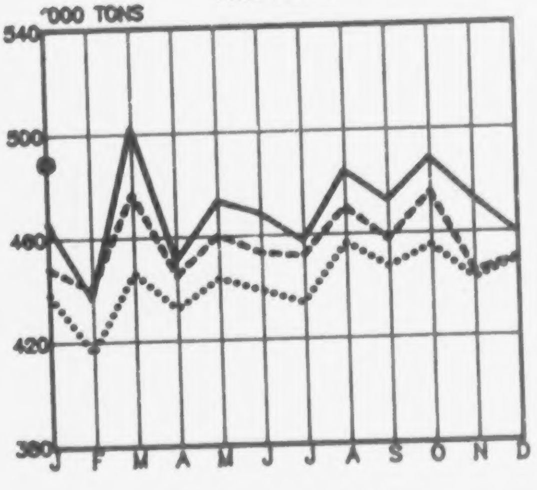
BLEACHED BRISTOLS

PRODUCTION



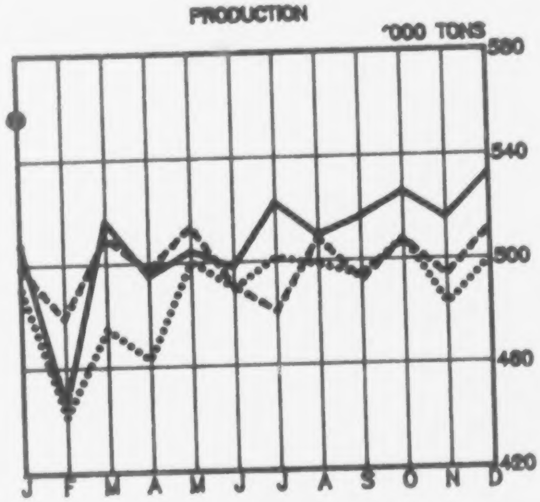
THIN PAPER

PRODUCTION



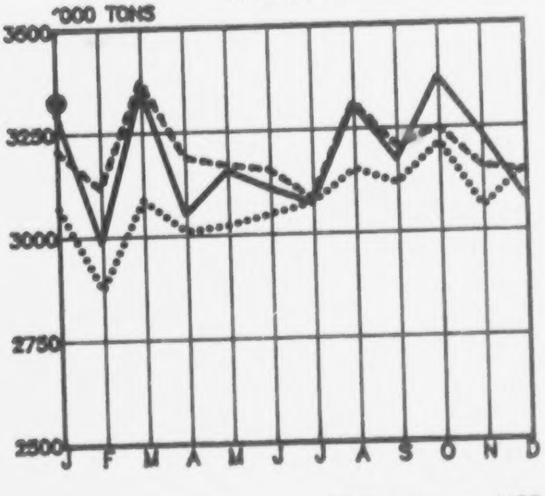
TISSUE PAPER

PRODUCTION



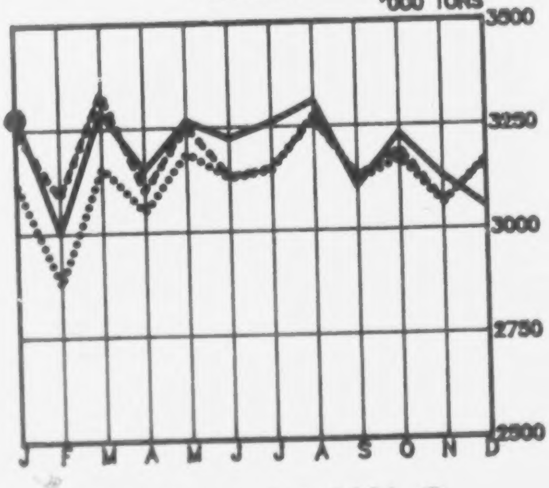
NEWSPRINT

PRODUCTION



TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION

1987 ········ 1988 - - - - - -1989 ——— Jan 1990 ●

FIBROUS RAW MATERIALS

(Thousands of Standard (128 cubic foot) Cords)

		YEAR 1987	YEAR 1988	SEPTEMBER 1989	OCTOBER 1989	NOVEMBER 1989	DECEMBER 1989	Annual Rate Y-T-D 1989	% Change- From Same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	94,312	95,537	8,491	8,876	8,202	7,844	99,279	3.9
	- Total Consumpt	93,946	95,497	8,167	8,331	8,070	7,936	98,414	3.1
	- Residues *	32,899	33,186	2,845	3,125	2,806	2,808	34,539	4.1
	- Inventories	5,096	4,888	4,891	5,405	5,581	5,462	5,462	11.7
So. Atlantic	- Total Receipts	31,147	31,582	2,804	2,801	2,609	2,474	31,982	1.3
	- Total Consumpt	30,915	31,567	2,782	2,737	2,529	2,585	32,239	2.1
	- Residues *	9,553	9,897	821	887	793	833	9,961	0.6
	- Inventories	1,211	1,200	956	956	1,037	936	936	-22.0
Northeast	- Total Receipts	6,941	7,187	585	687	558	596	7,242	0.8
	- Total Consumpt	7,109	7,216	583	603	563	538	7,072	-2.0
	- Residues *	1,543	1,664	126	132	118	108	1,575	-5.3
	- Inventories	594	572	444	499	475	522	522	-8.7
South Central	- Total Receipts	33,650	33,751	3,119	3,286	3,097	2,788	35,840	6.2
	- Total Consumpt	33,059	33,646	3,020	3,006	3,068	2,891	35,791	6.4
	- Residues *	9,992	9,890	884	988	946	844	10,539	6.6
	- Inventories	1,294	1,160	1,055	1,398	1,434	1,336	1,336	15.2
North Central	- Total Receipts	6,552	6,865	602	624	568	581	7,020	2.3
	- Total Consumpt	6,764	6,929	531	592	602	561	6,963	0.5
	- Residues *	1,263	1,334	116	132	138	126	1,422	6.6
	- Inventories	830	839	899	945	909	938	938	11.8
West	- Total Receipts	16,022	16,152	1,381	1,478	1,370	1,405	17,195	6.5
	- Total Consumpt	16,099	16,139	1,251	1,393	1,308	1,361	16,349	1.3
	- Residues *	10,548	10,401	898	986	811	897	11,042	6.2
	- Inventories	1,167	1,117	1,537	1,607	1,726	1,730	1,730	54.9

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA *

	YEAR 1988 Tons	YEAR 1988 ($000's)	NOVEMBER 1989 Tons	NOVEMBER 1989 ($000)	DECEMBER 1989 Tons	DECEMBER 1989 ($000)	Annual Rate Y-T-D 1989 Tons	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	39,337	4,195	52,191	1,028	22,552	355	211,061	436.5
Pulpwood chips	876,038	35,184	55,554	1,530	40,288	1,254	792,186	-9.6
Wood Pulp, Total A	4,340,245	2,282,329	354,385	213,996	333,815	199,776	4,353,343	0.3
Waste Fibrous Materials, Total	227,004	48,450	11,497	2,406	12,319	2,214	164,217	-27.7
Paper, Board & Products, Total A	10,756,385	5,861,382	937,708	519,955	879,584	475,464	10,986,831	4.7
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd. A	10,625,309	5,619,996	926,405	493,210	870,451	454,689	10,807,659	4.0
Paper, Paperboard & Products A	10,542,477	5,795,583	924,094	516,342	872,089	473,515	10,830,545	5.1
Paper & Paperboard, Only A	10,411,401	5,554,197	912,791	489,597	862,957	452,739	10,651,373	4.7
Paper, Total A	10,146,285	5,457,707	879,148	476,816	831,525	441,383	10,234,256	3.3
Newsprint R A	8,494,709	4,427,893	708,781	361,694	668,936	332,060	8,330,874	N.C.
Printing, Writing & Rel. Pap. RSA	1,371,035	861,347	138,914	92,797	134,025	89,204	1,579,698	17.3
Pack. & Ind. Conv. Paper	227,493	120,765	20,191	10,944	18,774	10,406	217,159	-4.5
Special Industrial Paper	4,767	9,106	5,436	6,241	4,537	4,956	49,045	928.8
Tissue Paper	48,281	38,596	5,826	5,140	5,253	4,758	57,481	19.1
Paperboard, Total	265,116	96,490	33,643	12,781	31,432	11,357	417,117	57.3
Convtd Paper&Paperbd Products RS	131,076	241,387	11,303	26,745	9,133	20,775	179,172	36.7
Wet Machine Board	2,939	2,120	62	52	23	22	293	-90.0
Construction Paper & Board	210,970	63,679	13,552	3,561	7,471	1,928	155,993	-26.1

NOTE: A - API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

EXPORTS TO CANADA *

Pulpwood, Roundwood (in cords of 128 cubic feet)	14,180	836	996	92	0	0	62,892	343.5
Pulpwood chips	33,040	1,739	1,110	51	524	24	28,218	-14.6
Wood Pulp, Total	280,074	101,214	13,346	5,568	35,794	13,911	352,896	26.0
Cotton Pulp & Other Pulp	84,891	24,062	508	382	523	424	6,215	-92.7
Waste Paper	331,999	38,199	11,468	1,649	23,499	3,478	284,379	-14.3
Paper, Board & Products, Total	1,050,117	715,960	86,335	54,000	86,525	58,917	1,083,228	3.2
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	773,973	464,416	61,471	36,029	61,172	38,365	754,575	-2.5
Paper, Paperboard & Products	1,013,157	699,127	85,691	53,722	84,752	58,329	1,062,560	4.9
Paper & Paperboard, Only	737,013	447,583	60,826	35,751	59,399	37,777	733,907	-0.4
Paper, Total	340,156	293,175	35,718	26,859	30,713	26,250	371,206	9.1
Newsprint	5,806	5,304	349	222	625	401	8,316	43.2
Printing, Writing & Rel. Pap. R	166,667	160,007	23,123	19,057	18,371	18,161	228,021	36.8
Pack. & Ind. Conv. Paper	41,718	29,572	7,716	2,934	6,761	2,705	65,390	56.7
Special Industrial Paper	118,806	90,276	4,231	4,104	4,475	4,169	62,645	-47.3
Tissue Paper	7,160	8,016	298	541	482	815	6,834	-4.6
Paperboard, Total	396,857	154,408	25,108	8,892	28,686	11,527	362,701	-8.6
Convtd Paper&Paperbd Products R	276,145	251,544	24,865	17,971	25,353	20,552	328,653	19.0
Wet Machine Board	6,527	2,590	7	3	30	20	1,628	-75.1
Construction Paper & Board	30,433	14,243	637	276	1,743	568	19,040	-37.4

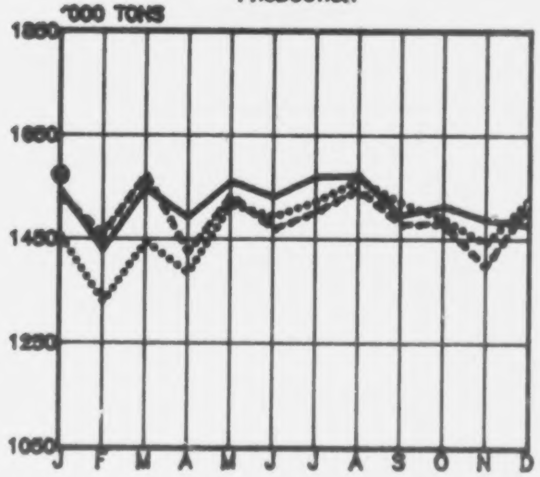
SOURCE: Bureau of Census, Department of Commerce . E - Estimate of tonnage based on square foot data RS - Revised Series

* 1989 Import/Export codes revised to Harmonized System. Detail may not always be comparable to 1988. NC - Not Comparable

R - API Revised grade distribution for 1989.

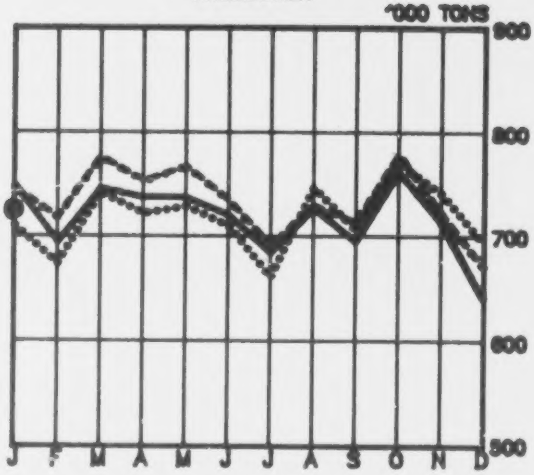
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



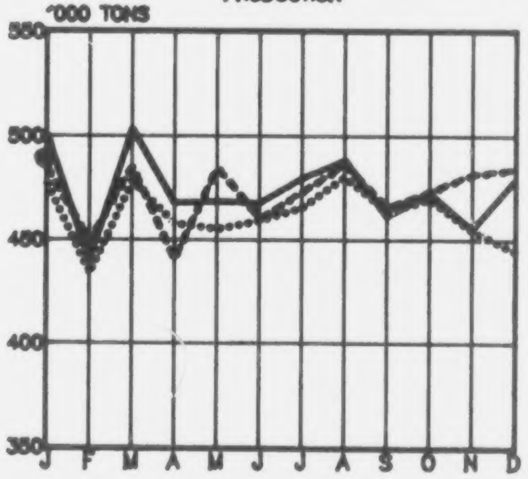
RECYCLED PAPERBOARD

PRODUCTION



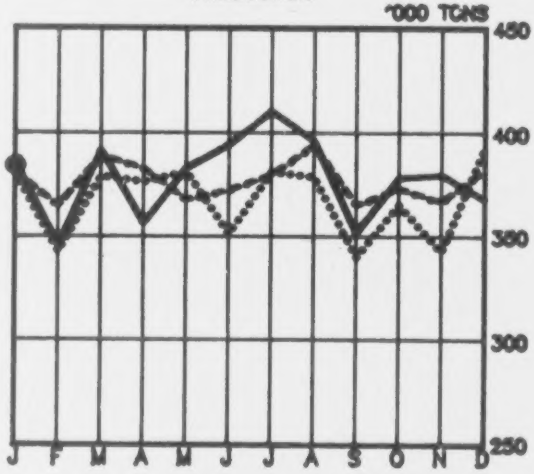
SEMICHEMICAL PAPERBOARD

PRODUCTION



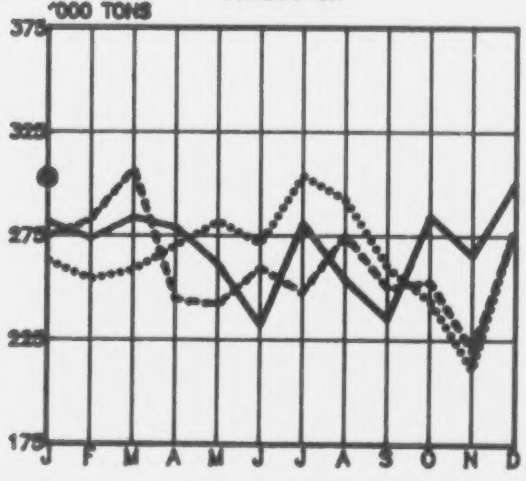
SOLID BLEACHED PAPERBOARD

PRODUCTION



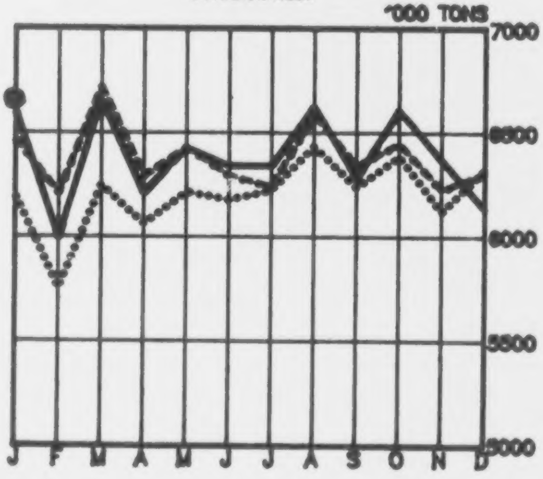
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1987 ········ 1988 - - - - - 1989 ——— Jan 1990 ●

PULP PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS*

	YEAR 1988 Tons	YEAR 1988 $000	1989 NOVEMBER Tons	1989 NOVEMBER $000	1989 DECEMBER Tons	1989 DECEMBER $000	(1) Annual Rate YTD 1989 Tons	% Change from same Period Last Year
• • • •	• •	•	•	• •	•	•	•	•
Pulpwood Roundwood (cords)	39,515	4,200	52,191	1,028	22,552	355	211,061	434.1
Pulpwood Chips	888,636	35,553	55,576	1,533	40,310	1,258	805,361	-9.4
Total All Imports A	18,402,259	10,725,164	1,514,760	956,254	1,425,379	869,252	18,288,860	-0.6
Wood Pulp Total A	5,038,158	2,663,424	387,620	234,786	398,459	239,778	5,005,100	-0.7
Waste Paper	161,367	27,361	11,473	2,339	12,172	2,137	172,575	6.9
Other Fibrous Materials	92,505	32,331	664	354	243	159	11,254	-87.8
Paper Board & Products Total A	13,110,229	8,002,047	1,115,003	718,775	1,014,506	627,178	13,099,930	-0.1
Paper Paperboard Wet Machine Bd. & Construction Paper & Board A	12,727,246	7,038,168	1,078,817	624,587	977,655	545,826	12,537,474	-1.5
Paper Ppbd & Prds ex Cnst&WMB A	12,787,784	7,893,637	1,099,945	714,430	1,006,030	624,757	12,910,205	1.0
Paper & Paperboard Only A	12,404,801	6,929,757	1,063,759	620,243	969,178	543,405	12,347,748	-0.5
Paper Total A	12,063,790	6,799,044	1,023,120	599,997	931,661	526,223	11,814,263	-2.1
Newsprint R A	8,801,503	4,569,853	719,577	367,263	688,629	340,938	8,553,401	N.C.
Printing & Writing A	2,859,530	1,948,906	251,666	181,836	197,131	142,039	2,732,978	-4.4
Uncoated Groundwood R	1,362,642	792,881	118,822	74,927	83,799	51,226	1,304,114	N.C.
Coated Print.& Impreg. Pap. A	797,765	641,466	70,269	57,962	55,955	45,483	774,022	-3.0
Uncoated Free Sheet A	591,830	414,326	56,194	40,964	51,206	37,968	583,077	-1.5
Uncoated Book A	258,146	175,746	N.L.R.	N.L.R.	N.L.R.	N.L.R.	N.L.R.	N.L.R.
Writing and Similar Paper A	333,683	238,580	56,194	40,964	51,206	37,968	583,077	74.7
Thin (except Cigarette) R	55,774	48,804	1,276	1,714	1,333	1,511	12,711	-77.2
Bristols RS	51,519	51,430	5,106	6,270	4,838	5,851	59,052	14.6
Total Pkg & Other Paper	343,196	231,796	40,262	40,226	36,155	34,143	407,087	18.6
Unbleached Kraft Paper	161,708	76,116	22,585	11,000	21,130	10,086	239,303	48.0
Other Pkg. & Indust. Paper	181,488	155,680	17,677	29,226	15,025	24,057	167,785	-7.6
Tissue	59,561	48,488	11,614	10,671	9,746	9,102	120,797	102.8
Paperboard, Total	341,911	130,714	40,639	20,246	37,517	17,182	533,485	56.4
Test or Containerboard	85,682	36,145	5,827	2,678	7,926	3,227	85,048	-0.7
Semi-Chemical Corrugating	142,490	43,596	6,875	1,983	8,552	2,541	118,176	-17.1
Other Paperboard	112,839	50,972	27,938	15,585	21,040	11,415	330,261	192.7
Convtd Paper&Paperbd Products	382,983	963,880	36,186	94,187	36,851	81,352	562,457	46.9
Paper Products, Total RS	345,817	895,813	29,305	79,939	31,280	70,297	470,471	36.0
Paperboard Products, Total	37,166	68,067	6,881	14,248	5,572	11,055	91,986	147.5
Wet machine Board	4,239	3,780	106	93	37	41	606	-85.7
Construction Paper & Board	318,206	104,630	14,952	4,251	8,440	2,380	189,119	-40.6
Notes								
Other: No Weight Avail. ($000)		177,686		10,537		8,452	136,624	-23.1
Total Imports Incl. Other($000)		10,902,850		966,791		877,703	11,488,887	5.4

NOTE: A - API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.
RS - 1988 data revised to conform with 1989 codes. R - API revised grade distribution for 1989.

EXPORTS

							(1)	
Pulpwood, Roundwood (cords)	15,470	894	5,317	699	3,755	49	137,617	789.6
Pulpwood Chips	3,503,100	286,191	271,389	28,412	382,994	38,533	4,357,811	24.4
Total All Exports	17,061,208	7,467,363	1,289,634	578,979	1,591,359	738,257	18,633,674	9.2
Wood Pulp,Total	5,528,292	2,914,521	346,645	195,928	584,592	328,436	6,231,172	12.7
Cotton Pulp and Other Pulp	201,567	111,923	8,251	6,989	13,145	8,940	122,045	-39.5
Waste and Old Paper	5,640,118	688,258	458,108	56,718	478,737	57,792	5,980,620	6.0
Paper, Board & Products,Total	5,691,231	3,752,661	476,630	319,344	514,886	343,088	6,299,837	10.7
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	4,876,563	2,701,405	399,020	221,575	436,768	242,387	5,259,802	7.9
Paper, Ppbd & Prod ex Cnst&WMB	5,559,356	3,683,601	474,949	318,550	511,369	341,701	6,263,560	12.7
Paper & Paperboard, Only	4,744,688	2,632,346	397,338	220,780	433,251	241,001	5,223,525	10.1
Paper, Total	1,102,490	988,031	114,051	90,422	103,115	86,518	1,465,821	33.0
Newsprint	427,296	295,474	46,100	25,391	34,678	19,450	624,798	46.2
Printing & Writing	287,208	313,047	41,349	37,205	38,845	37,638	478,270	N.C.
Uncoated Groundwood	70,286	58,639	5,503	4,418	6,739	4,597	88,056	25.3
Clay Coated Paper	97,464	79,731	14,770	12,237	14,575	11,931	168,538	72.9
Uncoated Free Sheet R	82,660	124,049	13,478	13,580	11,487	14,320	122,346	48.0
Other Printing & Writing R	36,799	50,629	7,598	6,970	6,045	6,790	99,329	N.C.
Total Pkg. & Other Paper	346,718	342,117	25,617	26,202	28,296	27,336	342,041	-1.3
Unbleached Kraft	110,075	54,975	8,768	4,790	12,904	5,484	125,818	14.3
Other Pkg. & Indust. Paper	236,643	287,142	16,849	21,412	15,393	21,853	216,223	-8.6
Tissue	41,268	37,393	985	1,624	1,295	2,093	20,712	-49.8
Paperboard, Total	3,642,198	1,644,314	283,287	130,358	330,136	154,483	3,757,704	3.2
Solid Wood Pulp	3,359,078	1,511,057	267,632	122,802	318,603	148,491	3,572,758	6.4
Total Linerboard	2,281,362	887,846	181,429	65,790	225,026	82,544	2,499,716	9.6
Bleached Kraft Linerboard	140,801	73,728	24,514	10,843	27,781	12,721	283,113	101.1
Unbleached Kraft Linerbd	2,140,562	814,119	156,915	54,946	197,245	69,823	2,216,603	3.6
Other Unbleached Kraft	292,437	102,638	22,243	8,185	15,794	8,104	246,575	-15.7
Other Bleached Kraft	742,918	502,513	61,606	47,948	74,878	56,805	795,305	7.1
Semi-Chemical Corrugating	42,360	18,060	2,355	879	2,905	1,039	31,162	-26.4
Recycled Paperboard	283,121	133,257	15,655	7,556	11,534	5,992	184,947	-34.7
Convtd Paper&Paperbd Products	814,668	1,051,256	77,611	97,770	78,118	100,701	1,040,035	27.7
Paper Products, Total R	367,548	682,281	30,612	61,114	35,810	66,712	473,435	28.8
Paperboard Products, Total	447,121	368,975	46,999	36,656	42,309	33,989	566,601	26.7
Wet Machine Board	11,691	4,915	54	20	139	75	2,889	-75.3
Construction Paper & Board E	120,184	64,145	1,628	774	3,378	1,312	33,388	-72.2
Notes								
Other: No Weight Avail. ($000)		9,170		2,144		1,790	23,665	158.1
Total Exports Incl. Other($000)		7,476,533		581,123		740,047	8,627,898	15.4

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description. N.L.R. - No longer reported.
* 1989 Import/Export data based on Harmonized System codes. Detail may not always be comparable to 1988. N.C. - Not Comparable

PRODUCER PRICE INDEXES
1982 = 100

	1988	1989	OCTOBER 1989	NOVEMBER 1989	DECEMBER 1989	JANUARY 1990	Annual Rate Y-T-D 1990	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	124.8	132.4	133.6	133.6	133.5	133.4	133.4	3.0
Pulp Paper & Products, ex. Building Grades & ex Waste Paper *	123.8	132.0	133.2	133.3	133.2	133.1	133.1	3.2
Total Wood Pulp	136.7	157.5	160.8	160.6	159.9	159.8	159.8	5.5
Total Paper	123.2	129.6	128.6	128.2	128.2	128.0	128.0	-0.5
Total Paper, exc. Newsprint	123.4	130.6	129.3	128.8	128.7	128.4	128.4	-1.1
Newsprint	127.6	122.4	118.8	118.6	117.8	117.9	117.9	-6.8
Total Paperboard	133.2	140.1	140.0	139.7	139.6	138.8	138.8	0.8
Total Paper and Paperboard *	126.4	132.9	132.2	131.8	131.8	131.4	131.4	-0.1
Converted Products	123.0	131.7	134.0	134.5	134.5	134.5	134.5	5.4
Waste Paper	183.6	157.1	158.3	152.5	151.4	151.4	151.4	-3.8
All Commodities	106.9	112.2	112.7	112.7	113.0	114.9	114.9	4.0
Industrial Commodities	106.3	111.6	112.4	112.2	112.3	114.2	114.2	4.2

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

Paper and Allied Products Companies

Sales and Earnings

	Sales			Net Profit After Taxes			Net Profits/Sales	
	1989	1988	89/88	1989	1988	89/88	1989	1988
	(Thousand Dollars)		%	(Thousand Dollars)		%	%	%
			25	Paper and Allied Products Companies				
First Quarter	17,247,422	15,478,983	11.4	1,385,468	1,160,445	19.4	8.03	7.50
Second Quarter	18,300,414	16,006,645	14.3	1,384,626	1,304,442	6.1	7.57	8.15
Third Quarter	18,023,162	16,446,298	9.6	1,412,779	1,531,561	-7.8	7.84	9.31
Fourth Quarter	18,205,800	16,857,752	8.0	1,220,346	1,400,975	-12.9	6.70	8.31
Year-to-date	71,776,798	64,789,678	10.8	5,403,219	5,397,423	0.1	7.53	8.33
			4	Forest Product Companies				
First Quarter	5,382,803	4,781,531	12.6	351,437	256,957	36.8	6.53	5.37
Second Quarter	5,971,615	5,463,237	9.3	386,418	314,540	22.9	6.47	5.76
Third Quarter	5,892,583	4,967,155	18.6	409,560	304,091	34.7	6.95	6.12
Fourth Quarter	5,657,875	5,717,280	-1.0	90,906	323,620	-71.9	1.61	5.66
Year-to-date	22,904,876	20,929,203	9.4	1,238,321	1,199,208	3.3	5.41	5.73

Imports of waste paper in 1989 were 179,000 tons. Total waste paper recovery amounted to 27.5 million tons, equivalent to 32.4% of the new supply of paper and board.

WOOD PULP

Chemical paper grade market wood pulp production in January 1990, at 657,000 short tons, was equal to its year-ago total and 9% above the 1989 monthly average. Producers added 175,000 tons of these grades of wood pulp to their inventories in January and shipments fell to 482,000 tons, 15% below their January 1989 level and 19% below the average rate for all of 1989. Exports bore the brunt of the January decline, falling by 144,000 tons -- 35.5%. Declines were evident in all markets, with shipments to Western Europe off 27% and shipments to Japan down 33%. Shipments to the domestic market fell 3.4% from January 1989 to January 1990.

SALES AND EARNINGS

Sales for the 25 paper and allied products companies reported in the press in 1989, which accounted for about 64% of the industry total, were 11% above their year-ago total, while after-tax earnings matched their year-ago rate. These companies generally turn in a stronger performance than the industry as a whole. Census reports for the first three quarters of 1989, as presented on the Industry Data Sheet that accompanies this report, show sales for all paper and allied products companies up 4.6%, after-tax profits down 5.2%; changes for all paper and allied products companies for the full year 1989 should be fairly close to these rates. The aggregated data for these 25 companies are shown on the bottom of page 10, together with data on the four lumber and wood products companies that have pulp and paper capacity.

INDUSTRY DATA SHEET -- LONG TERM

The table on page 12 presents annual data on various industry and market data series reported in the Industry Data Sheet that accompanies this report for selected years from 1979 to 1989, to provide an historical perspective.

INDUSTRY DATA

PAPER AND PAPERBOARD — Tons (000)	1979	1984	1985	1986	1987	1988	1989
Total Production (API)......: excluding :	61,071	68,468	66,958	70,875	74,318	76,467	76,488
Imports (including Products).: wet :	8,736	10,576	11,106	11,597	12,526	12,788	12,910
Exports (including Products).: machine :	3,610	4,310	4,003	4,593	5,197	5,569	6,263
Apparent Consumption.........: grades :	66,199	74,734	74,061	77,879	81,649	83,696	83,135
Paper Production % Tonnage Capacity	95.1	92.9	90.6	93.4	94.4	95.4	92.4
Paperboard Production % Tonnage Capacity	93.9	94.5	89.7	93.8	96.7	94.5	93.1
IMPORTS.....:Including Construction and :	9,123	11,075	11,521	11,336	12,837	13,110	13,100
EXPORTS.....: WMB Grades (excl. HPB) :	3,672	4,387	4,071	4,687	5,304	5,691	6,300
MARKET WOOD PULP PRODUCTION – Tons (000)	5,678	6,899	6,800	7,573	8,114	8,565	8,664
TOTAL WOOD PULP PRODUCTION – Tons (000)	49,366	56,471	54,147	57,005	59,552	61,161	62,023
WOOD PULP IMPORTS – Tons (000)	4,318	4,490	4,468	4,582	4,850	5,036	5,006
WOOD PULP EXPORTS – Tons (000)	2,905	3,594	3,791	4,458	4,889	5,828	6,231
RAW MATERIALS CONSUMPTION – Tons (000)							
..PAPER AND BOARD MILLS : excluding :							
Wood Pulp............:consumption for:	48,939	54,994	53,683	57,061	59,474	60,847	61,309
Waste Paper...........:construction & :	13,726	15,926	15,734	17,268	17,993	19,021	19,994
TOTAL..........: WMB grades :	62,665	70,920	69,417	74,329	77,467	79,868	81,303
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd.Asn	79,556	87,646	85,744	91,434	93,946	95,497	98,414
EMPLOYMENT (000)							
Paper and Allied Products.........Total	706.8	680.9	677.7	673.7	680.1	692.6	697.3
Pulp, Paper and Board Mills........Total	271.4	257.2	252.3	248.1	244.9	245.5	247.2
AVG. HOURLY EARN'S OF PRODUCTION WORKERS ($)							
Paper and Allied Products	7.13	10.41	10.83	11.18	11.43	11.66	11.93
Pulp, Paper Mills	8.26	12.43	13.14	13.63	14.01	14.31	14.71
Paperboard Mills	8.38	12.99	13.60	13.96	14.30	14.49	14.76
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS							
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	5.24	7.21	8.59	8.77	9.01	11.36	15.45
INDEX OF OUTPUT PER MAN-HOUR (1977=100)							
:IN PULP, PAPER :....Production Workers	106.2	123.1	126.3	136.8	144.8	148.7	149.0
:AND BOARD MILLS:...All Employees	105.4	121.0	123.1	133.5	141.6	146.1	145.5
PAPER AND ALLIED PRODUCTS (Million $)							
Industry Shipments (Dept. of Commerce)*	65,244	94,813	93,412	103,916	118,856	127,718	130,507
Pulp, Paper and Paperboard*	28,002	41,364	39,173	44,033	51,518	57,177	57,698
Inventories (End of Period) - Total Industry*..	6,936	10,128	9,906	10,429	11,264	12,088	12,560
Pulp, Paper and Paperboard*	2,377	3,822	3,828	4,115	4,266	4,326	4,989
Sales (Corporations Only)	55,359	71,891	71,466	74,844	95,576	107,221	111,873 @
Earnings (Corporations Only)	3,723	3,015	2,880	3,280	5,520	8,081	7,801 @
Depreciation (Corporations Only)	1,898	2,798	3,099	3,389	4,279	4,625	4,887 @
Net Worth (Corporations Only)	23,206	26,160	29,694	31,221	39,217	42,940	46,513 @
PRICE INDEXES (Bureau of Labor Stats)1982=100							
Pulp, Paper & Products, ex. Building Grades	80.6	107.3	106.9	107.5	114.3	124.8	132.4
Wood Pulp	82.9	104.8	91.4	94.7	111.6	136.7	157.5
Waste Paper	170.5	196.2	122.9	142.6	181.4	183.6	157.1
Paper	80.2	105.8	106.0	107.0	111.5	123.2	129.6
Paperboard	79.3	110.4	107.7	106.5	118.1	133.2	140.1
PAPER DEMAND (INDEXED: 1977=100)							
Total Paper Production *	107.1	124.3	122.8	128.0	133.0	138.4	137.7
Paper New Supply *	109.7	127.6	128.7	133.7	140.0	144.4	142.1
Demand Indicators - (Weighted Average) *	109.9	134.8	140.7	146.4	154.5	163.7	175.7
Production of Nondurable Goods *...(21.2%)	108.2	122.3	125.3	130.1	136.8	143.9	150.4
Disposable Income ....*.(23.9%)	105.0	119.5	123.0	127.8	130.0	134.9	140.7
Total Printing and Publishing *...(54.9%)	112.7	146.4	164.3	160.9	172.0	183.8	200.7
PAPERBOARD DEMAND (INDEXED: 1977=100)							
Total Paperboard Production *	108.5	117.6	114.3	121.9	129.2	131.5	132.1
Production for Domestic Use	107.4	115.4	112.8	118.7	126.2	128.8	129.2
Demand Indicators - (Weighted Average) *	106.9	118.1	120.1	121.9	125.9	132.5	137.2
Production of Consumer Goods *...(62.06%)	103.9	118.0	120.5	124.1	127.7	133.9	139.4
Production of Equipment *...(5.75%)	120.4	140.5	146.4	143.7	148.8	158.2	164.2
Production of Materials *...(32.19%)	110.3	114.2	114.5	113.8	118.3	125.3	126.1
NEWSPRINT MARKETS							
Consumption by Publishers - Tons (000)	11,242	12,603	12,773	13,158	13,583	13,597	13,563
Newspaper Pub. and Printing Empl. Total(000)	420	440	451	461	470	475	478
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (PIB, Inc.)	119,832	157,798	155,545	154,317	164,771	172,580	177,312
WHOLESALERS SALES AND INVENTORIES (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	14,916 #	33,603	35,344	38,245	44,251	52,377	56,512
Inventories (End of Period)	2,023 ##	2,993	3,339	3,577	3,744	4,436	4,398
FIBRE BOX DATA (Fibre Box Association)							
Fibre Box Shipments (Million square feet)	250,600	267,547	267,451	283,921	297,827	308,507	312,205
Container'bd Inventory at Mill & Plant(000Tons)	1,979	2,882	2,551	2,238	2,490	2,553	2,501
RETAIL TRADE (Billion $)							
Total Retail Sales *	897	1,289	1,380	1,437	1,511	1,622	1,711
Nondurable Goods Stores Sales *	590	822	862	899	960	995	1,062
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1977 = 100)*	110.7	121.4	124.2	126.1	129.8	137.2	141.7
PRODUCER PRICES(ALL COMMODITIES)(IDX 1982=100)	78.7	103.7	103.2	100.2	102.8	106.9	112.2
CONSUMER PRICES (ALL ITEMS) (INDEX 1982-4=100)	72.6	103.9	107.6	109.6	113.6	118.3	124.0
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $)	296.5	453.0	531.0	588.3	623.6	671.4	729.3
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billions$)							
G.N.P. or Expenditure - Current $	2,508	3,772	4,015	4,232	4,524	4,881	5,233
G.N.P. or Expenditure - 1982 $	3,192	3,501	3,619	3,718	3,854	4,024	4,144

Note: Wood Pulp prod. excl. def., explo. & screngs. *Seas. Adj. @ First three quarters at annual rate. # Dec. 1980 Annual Rate ##Dec. 1980

A2500-2

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol.68 No.3 MARCH 1990

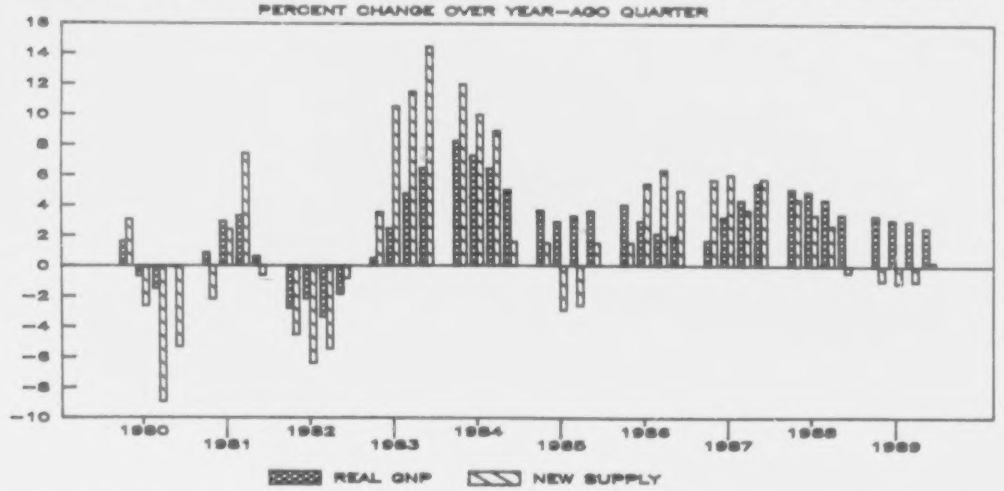
PAPER AND PAPERBOARD PRODUCTION CONTINUES ALONG ITS 1988-1989 TRACK

Introduction: The trend of paper and paperboard demand has long tended to match that of the real gross national product (real GNP). In the 1976-1988 period, for example, paper and paperboard new supply (production plus imports less exports) rose by 42.7%, that of real GNP by 42.4%. On a year-to-year basis, paper and paperboard demand generally led real GNP on the upswing of the business cycle and lagged it in periods of slowing or declining growth (See chart below.)

For most of the past twelve years production grew more slowly than demand because of increases in net imports. Since the end of 1987, the growth of demand lagged that of real GNP, with the 1989 new supply total 0.7% below 1988's. At the same time, net imports declined and production flattened.

The rate of growth in real GNP slowed in recent quarters, while the paper and paperboard production remained level. The January-February 1990 seasonally-adjusted rate of paper and paperboard production, for example, was just 1.2% above its year-ago volume; a 2.5% gain in paper offset a 0.2% loss in paperboard. The unadjusted totals were fractionally stronger, reflecting the effect of one less Sunday -- average industry production on Sundays is about 2% below that of weekdays -- in the first two months of 1990. (See table on page 3.)

REAL GNP & NEW SUPPLY OF PAPER & PA'BRD



Copyright © 1990 American Paper Institute 260 Madison Avenue New York, N.Y.10016

The 1989 ratio of paper and paperboard new supply to real GNP reached its lowest level since 1975, with the exception of 1982. The 1989 decline does not necessarily presage a change in the long-term relationship between paper and paperboard demand and real GNP. Paper demand has occasionally lagged a growing real GNP, and always recovered. In 1985, for example, demand for paper and paperboard turned down at a time when real GNP was in a rising trend, but then moved up more rapidly than real GNP in the two subsequent years.

Paper: Demand for domestically-produced newsprint continues to swell and seems headed for yet another record year. Some of this growth is attributable to rising international demand; U.S. newsprint exports gained 46% in 1989, mainly to Asian markets, following a 26% expansion in 1988. The January 1990 export total increased a further 2.9% from its January 1989 level.

Among the printing-writing grades, shipments of uncoated groundwood, uncoated free sheet and coated papers in the first two months of 1989 outpaced their year-ago rates. New and unfilled orders for the uncoated groundwood and uncoated free sheet grades were well ahead of last year's levels, while uncoated free sheet new orders showed a smaller gain. Mill inventories of printing-writing papers have remained steady since October 1989, indicating that recent production has been matching shipments.

The 1990 gain in shipments of printing-writing papers reflected, in part, a change in inventory policies of end-users. Last year at this time, users were reducing white paper inventories, keeping purchases below consumption rates; at present their purchases are more closely in line with actual requirements.

Year-to-date shipments of unbleached kraft paper dropped 12% from their January-February 1989 totals. Grocers bags and sacks accounted for most of this decline, partly the result of a 20,000-ton reduction in inventories of these products at converting plants. The rate of total kraft paper shipments in the first two months of 1990, as measured by the 6-month moving average of the seasonally adjusted data, fell back to its third quarter 1989 level, after a temporary resurgence in the last quarter of that year.

Paperboard: Production of paperboard for export is the bright spot among paperboard markets, posting a 7.4% gain over its comparable 1989 level. Boxboard production for export, up 16%, has been the driving force, offsetting losses in production of non-packaging boxboard. The non-packaging grades that have been losing ground include gypsum wallboard facing -- used largely in residential construction -- and panelboard -- used mainly in automobile production.

Containerboard output followed a similar pattern, with a 4.8% increase in production for export offsetting a fractional decline in production for domestic use. Shipments of fibre boxes in the first two months of 1990 also held close to their corresponding year-ago totals.

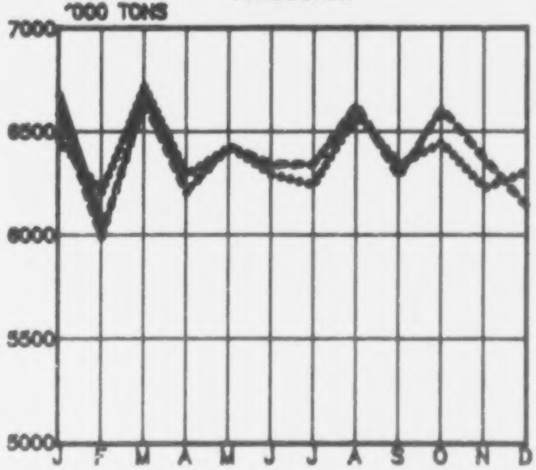
Technical note: The graphs on pages 4,6 and 8 have been re-ordered. Page 4 now shows the summaries: total paper and

PAPER AND PAPERBOARD STATISTICS PRODUCTION, SHIPMENTS AND ORDERS (Thousands of Tons)	YEAR		NOV	DEC	JAN R	FEB P	Annual Rate Y-T-D	% Change From Same Period
	1988	1989	1989	1989	1990	1990	1990	Last Year
PAPER								
Newsprint – Production	5,982	6,088	516	532	553	510	6,378	11.6
– Shipments	5,969	6,079	530	529	548	515	6,380	13.7
Printing & Writing: Total Shipments	21,857	21,540	1,816	1,684	1,929	1,742	22,027	2.4
Groundwood Paper – Shipments	1,624	1,754	153	123	157	145	1,812	6.8
– New Orders	1,654	1,784	129	150	162	154	1,892	17.4
– Unfilled Orders	208	211	196	211	224	234	234	30.1
Coated Papers – Shipments	7,359	7,194	616	585	642	569	7,262	2.2
– New Orders	7,412	7,262	552	585	610	522	6,792	-1.6
– Unfilled Orders	751	822	832	822	786	737	737	5.9
Unctd Free Sheet – Shipments	11,277	11,043	930	864	994	903	11,386	1.9
– New Orders	11,298	11,132	967	914	959	966	11,547	6.7
– Unfilled Orders	790	784	747	784	742	816	816	21.9
Thin Papers – Shipments	281	245	17	18	23	21	265	12.5
Cotton Fiber Paper – Shipments	167	157	12	12	13	13	160	-2.0
Bleached Bristols – Shipments	1,150	1,148	89	82	100	90	1,141	0.0
Tissue Paper – Production	5,476	5,636	474	460	474	452	5,552	2.5
Total Packaging & Other Paper	5,047	4,925	429	402	414	373	4,726	-6.3
Unbl. Kraft Paper – Shipments	2,800	2,681	241	216	216	190	2,437	-12.4
Other Paper – Production	2,247	2,243	188	186	198	183	2,289	1.3
TOTAL PAPER PRODUCTION – UNADJUSTED	38,363	38,189	3,234	3,077	3,370	3,077	38,683	2.6
TOTAL PAPER PRODUCTION – SEAS ADJ			3,247	3,090	3,284	3,254	39,225	2.5
PAPERBOARD – PRODUCTION								
Containerboard	26,225	26,425	2,145	2,160	2,283	2,052	26,009	0.2
Cont'bd For Dom Use for Fibre Boxes	23,563	23,742	1,941	1,906	2,025	1,819	23,066	-0.1
Total Linerboard	16,177	16,392	1,339	1,289	1,388	1,248	15,813	-0.1
Unbleached Kraft	15,601	15,827	1,299	1,251	1,350	1,224	15,443	1.1
Solid Bleached	170	177	13	10	13	8	125	-25.4
Recycled	407	388	26	29	25	16	245	-36.1
Corrugating Medium	7,351	7,335	601	617	637	570	7,243	0.0
Semichemical	5,528	5,545	446	467	478	419	5,377	-1.8
Recycled	1,823	1,791	155	150	159	152	1,866	5.7
Container Chip and Filler	35	14	1	1	1	1	10	-55.3
Other Containerboard for Dom Use	320	307	19	27	23	18	249	-18.8
Containerboard for Export	2,342	2,377	185	227	234	215	2,694	4.8
Boxboard	11,879	11,873	981	893	1,018	941	11,749	0.0
Boxboard for Packaging for Dom Use	7,014	7,059	572	527	607	563	7,021	0.5
Folding Boxboard	5,293	5,334	437	390	461	426	5,320	0.6
Solid Bleached	2,017	1,992	167	151	163	152	1,889	-4.1
Unbleached Kraft	924	987	74	65	86	83	1,013	5.2
Recycled	2,352	2,355	196	174	211	192	2,417	2.6
Set-up Boxboard for Dom Use	279	284	22	19	26	26	311	6.4
Milk Carton & Food Service Dom Use	1,442	1,441	112	119	121	111	1,390	-1.2
Other Boxboard for Domestic Use	4,076	3,963	329	291	337	304	3,850	-3.9
Boxboard for Export	789	852	80	74	73	74	878	16.0
Paperboard Production by Furnish	38,104	38,299	3,126	3,053	3,300	2,993	37,757	0.1
Unbleached Kraft	19,140	19,493	1,580	1,567	1,685	1,536	19,328	1.4
Semichemical	5,664	5,681	455	479	490	430	5,518	-2.1
Solid Bleached Kraft	4,511	4,532	379	368	384	356	4,439	1.5
Recycled	8,789	8,592	713	639	741	671	8,473	-1.9
Paperboard Production for Export	3,132	3,227	265	300	306	289	3,572	7.4
Unbleached Kraft	2,296	2,373	187	224	226	211	2,623	3.8
Semichemical	136	137	9	12	12	12	141	-11.8
Bleached Kraft	628	683	66	60	64	64	768	26.7
Recycled	72	34	4	3	4	2	41	18.4
TOTAL PAPERBOARD PRODUCTION – UNADJ	38,104	38,299	3,126	3,053	3,300	2,993	37,757	0.1
TOTAL PAPERBOARD PROD – SEAS ADJ			3,212	3,119	3,193	3,179	38,235	-0.2
PAPER AND PAPERBOARD – UNADJ	76,467	76,488	6,361	6,130	6,670	6,070	76,441	1.4
PAPER AND PAPERBOARD – SEAS ADJ			6,459	6,209	6,477	6,433	77,461	1.2

R – Revised P – Preliminary Seas. Adj. – Seasonally Adjusted Unadj – Not Seasonally Adjusted

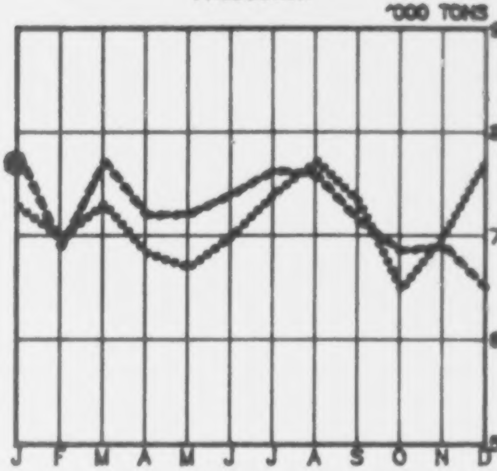
TOTAL PAPER AND PAPERBOARD

PRODUCTION



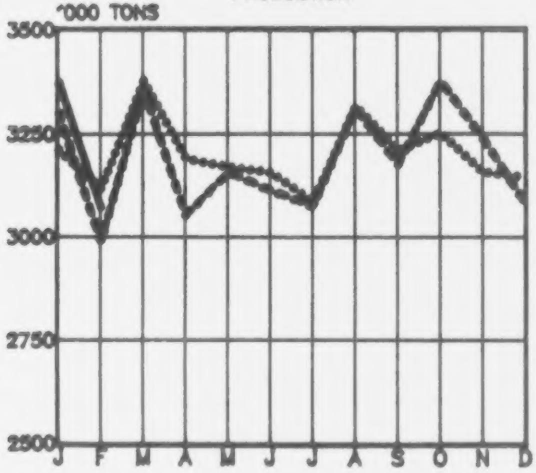
MARKET WOOD PULP

PRODUCTION



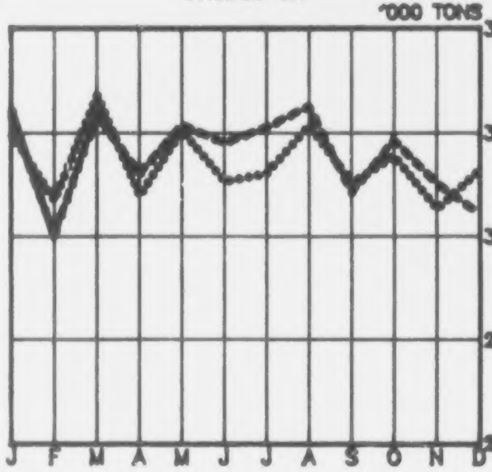
TOTAL PAPER

PRODUCTION



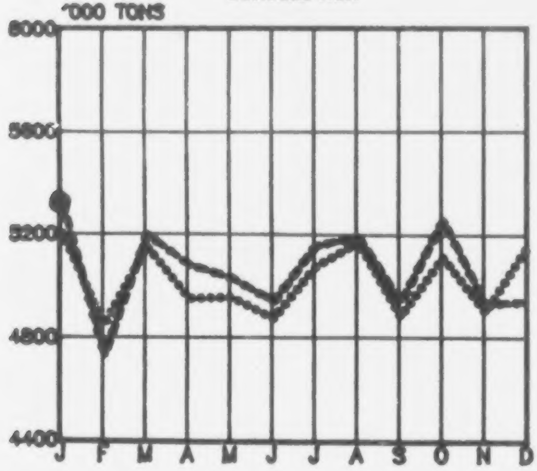
TOTAL PAPERBOARD

PRODUCTION



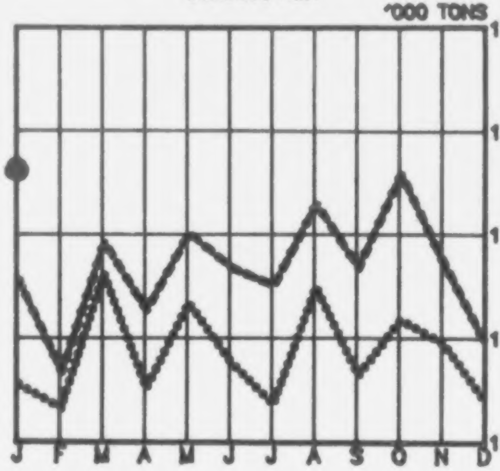
TOTAL WOOD PULP

CONSUMPTION



TOTAL WASTE PAPER

CONSUMPTION



1988 ········ 1989 ——— 1990 ——— or ●

WOOD PULP STATISTICS (Thousands of Tons)			YEAR		OCT	NOV	DEC R	JAN P	Annual Rate Y-T-D	% Change From Same Period Last Year
			1988	1989	1989	1989	1989	1990	1990	
TOTAL WOOD PULP										
Total Wood Pulp	Production		61,161	61,998	5,296	5,021	4,991	5,483	65,800	0.4
	Imports	A	5,038	5,005	442	388	398	413	4,953	-4.5
	Exports		5,528	6,231	502	347	585	420	5,041	-8.1
	New Supply		60,671	60,772	5,235	5,062	4,805	5,476	65,712	0.7
Dissolving Pulp	Production		1,367	1,425	110	133	117	127	1,520	-0.2
	Imports		248	284	34	11	21	17	210	-6.9
	Exports		865	836	67	53	90	58	691	5.4
	New Supply		751	873	77	90	48	87	1,039	-4.9
Paper Grades Chemical Pulp	Production		49,493	50,181	4,276	4,032	3,996	4,420	53,036	-0.1
	Imports	A	4,419	4,370	378	338	343	372	4,466	-5.0
	Exports		4,612	5,325	432	290	490	357	4,279	-9.5
	New Supply		49,300	49,226	4,222	4,079	3,848	4,435	53,223	0.3
Groundwood and Thermo-Mech	Production		5,943	6,029	530	505	523	548	6,580	5.6
	Imports	A	371	351	30	39	34	23	276	6.3
	Exports		51	70	3	3	5	6	70	-31.7
	New Supply		6,263	6,309	556	541	552	566	6,786	6.3
Semi-Chemical	Production		4,358	4,363	379	351	357	389	4,663	-1.1
	Imports									
	Exports									
	New Supply		4,358	4,363	379	351	357	389	4,663	-1.1
MARKET WOOD PULP										
Total Market Wood Pulp	Production		8,565	8,564	683	689	648	771	9,247	-0.8
	Imports		3,471	3,340	290	251	282	266	3,192	-5.1
	Exports		5,071	5,310	396	318	501	311	3,730	-22.5
	New Supply		6,966	6,694	577	623	429	726	8,710	10.7
Dissolving Pulp	Production		1,365	1,422	109	132	117	125	1,500	-1.4
	Imports		206	210	24	8	17	7	82	-7.9
	Exports		798	821	63	48	93	64	762	14.8
	New Supply		774	810	70	92	41	68	820	-13.4
Paper Grades Chemical Pulp	Production		7,200	7,242	574	557	531	646	7,747	-0.6
	Imports		3,126	3,072	264	233	261	257	3,084	-4.5
	Exports		4,273	4,489	333	269	409	247	2,968	-28.4
	New Supply		6,052	5,825	505	520	384	655	7,864	14.3
Groundwood Pulp and All Other	Production		0	0	0	0	0	0	0	0.0
	Imports		139	58	2	10	3	2	26	-42.6
	Exports		0	0	0	0	0	0	0	0.0
	New Supply		139	58	2	10	3	2	26	-42.6

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

NOTE: A - API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

FIBROUS RAW MATERIALS (Thousands of tons)	YEAR		OCT	NOV	DEC R	JAN P	Annual Rate	% Change From Same Period Last Year
	1988	1989	1989	1989	1989	1990	1990	
CONSUMPTION AT PAPER & PAPERBOARD MILLS								
Total	79,315	80,722	7,020	6,607	6,540	7,100	85,196	1.8
Total Wood Pulp	60,294	60,725	5,260	4,933	4,945	5,332	63,988	0.3
Waste Paper	19,021	19,997	1,760	1,674	1,595	1,767	21,208	6.7
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	172	178	187	188	193	192	192	7.6
Producers' Market Inventories	261	344	383	446	342	517	517	50.5
Consumers' Purchased Inventories #	622	596	551	529	519	539	539	-9.6
Waste Paper at Paper & Bd. Mills	1,044	1,056	1,082	1,111	1,095	1,114	1,114	5.5
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	14	18	20	25	19	30	30	66.7

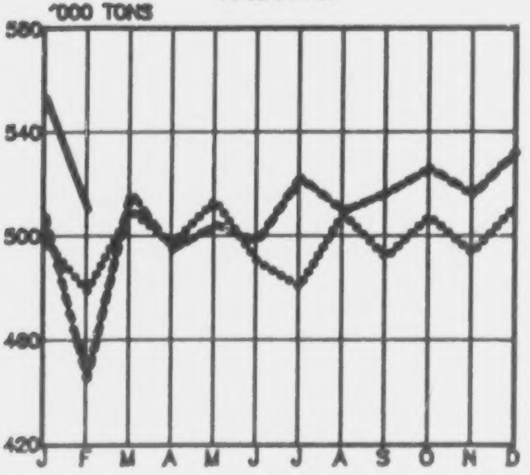
SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.

Includes all grades of wood pulp

P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

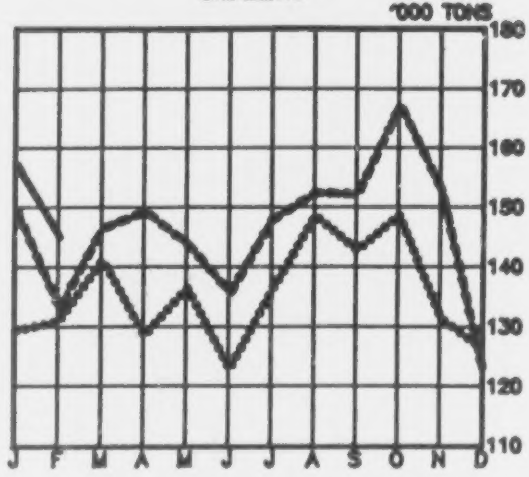
NEWSPRINT

PRODUCTION



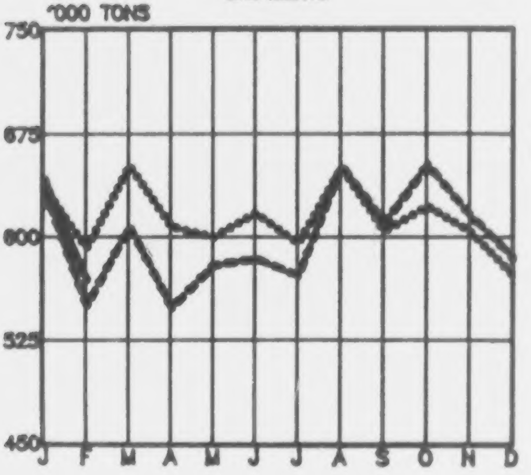
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



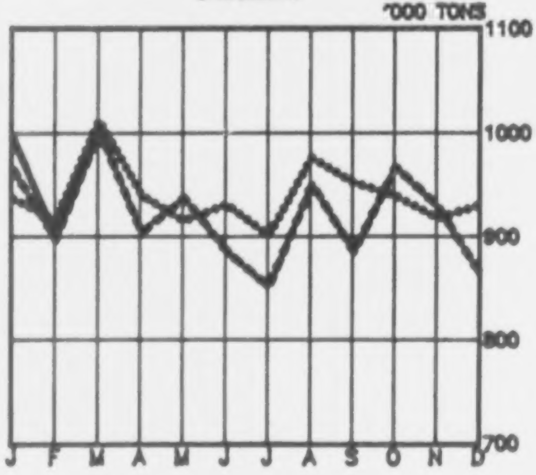
COATED PAPER

SHIPMENTS



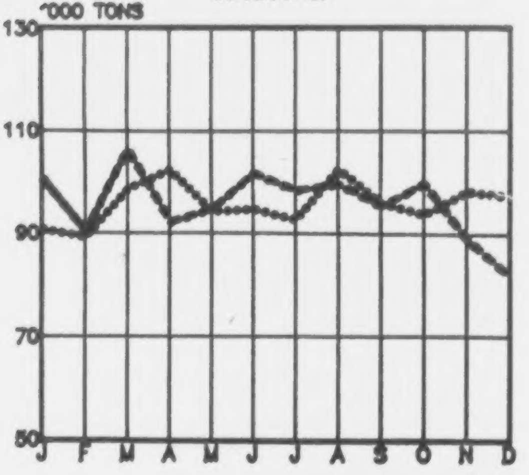
UNCOATED FREE SHEET PAPERS

SHIPMENTS



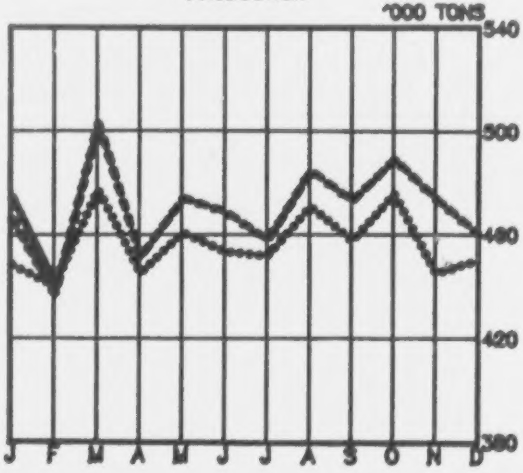
BLEACHED BRISTOLS

PRODUCTION



TISSUE PAPER

PRODUCTION



1988 ········ 1989 ‒ ‒ ‒ ‒ 1990 ———

FIBROUS RAW MATERIALS (Thousands of Standard (128 Cu. ft.) Cord	YEAR 1988	YEAR 1989	OCTOBER 1989	NOVEMBER 1989	DECEMBER 1989	JANUARY 1990	ANNUAL RATE Y-T-D 1990	% CHANGE FROM SAME PD LAST YEAR
PULPWOOD								
Total U.S. - Total Receipts	95,537	99,279	8,576	8,202	7,844	8,741	104,892	3.8
- Total Consumpt	95,497	98,414	8,331	8,070	7,936	8,563	102,636	2.3
- Residues *	33,186	34,530	3,126	2,806	2,806	3,100	37,200	7.1
- Inventories	4,888	5,462	5,405	5,581	5,462	5,571	5,571	14.6
So. Atlantic - Total Receipts	31,882	31,982	2,801	2,609	2,474	2,886	34,620	4.3
- Total Consumpt	31,567	32,239	2,737	2,529	2,586	2,783	33,396	0.7
- Residues *	9,897	9,961	887	793	833	1,016	12,180	18.0
- Inventories	1,200	938	956	1,037	936	1,000	1,000	-16.2
Northeast - Total Receipts	7,187	7,242	687	558	596	692	8,304	-0.9
- Total Consumpt	7,216	7,072	603	563	536	639	7,668	2.4
- Residues *	1,664	1,576	132	118	108	127	1,524	-4.5
- Inventories	572	522	499	475	522	563	563	-7.4
South Central - Total Receipts	33,751	35,840	3,288	3,097	2,785	3,057	36,684	5.5
- Total Consumpt	33,646	35,791	3,006	3,066	2,891	3,064	36,768	4.9
- Residues *	9,890	10,539	958	946	844	924	11,088	5.1
- Inventories	1,160	1,338	1,[illegible]	1,434	1,336	1,304	1,304	16.1
North Central - Total Receipts	6,885	7,020	624	596	561	698	8,256	-0.3
- Total Consumpt	6,929	6,963	592	602	561	631	7,572	5.0
- Residues *	1,334	1,422	132	138	128	112	1,344	-1.8
- Inventories	839	938	945	909	936	999	999	7.2
West - Total Receipts	16,152	17,195	1,478	1,370	1,405	1,419	17,028	2.1
- Total Consumpt	16,139	16,349	1,393	1,308	1,361	1,436	17,232	-1.0
- Residues *	10,401	11,042	968	811	897	922	11,064	1.5
- Inventories	1,117	1,730	1,607	1,728	1,730	1,716	1,716	70.6

* - Consumption of Residues in cords equivalent

SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA		IMPORTS FROM CANADA * YEAR 1989 Tons	YEAR 1989 ($000)	DECEMBER 1989 Tons	DECEMBER 1989 ($000)	JANUARY 1990 Tons	JANUARY 1990 ($000)	ANNUAL RATE Y-T-D 1990 Tons	% CHANGE FROM SAME PD LAST YEAR
Pulpwood, Roundwood (in cords of 128 cubic feet)		211,081	4,582	22,552	365	0	0	0	-100.0
Pulpwood chips		792,166	27,339	40,288	1,264	49,961	1,846	599,529	-39.0
Wood Pulp, Total	A	4,353,343	2,599,247	333,815	199,776	381,417	232,367	4,577,003	-1.3
Waste Fibrous Materials, Total		184,217	31,858	12,319	2,214	13,244	2,889	158,930	-38.8
Paper, Board & Products, Total	A	10,983,831	6,104,181	879,584	476,464	932,936	513,784	11,195,227	1.4
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	A	10,807,869	5,782,419	870,461	464,889	921,657	486,777	11,059,880	2.3
Paper, Paperboard & Products	A	10,830,545	6,085,485	872,089	473,515	923,901	511,336	11,086,807	3.0
Paper & Paperboard, Only	A	10,651,373	5,743,703	862,957	452,739	912,622	484,329	10,951,460	3.9
Paper, Total	A	10,234,256	5,579,018	831,526	441,383	880,145	472,203	10,561,736	4.4
Newsprint	A	8,330,874	4,278,705	688,936	332,080	694,954	347,224	8,339,447	4.2
Printing, Writing & Rel. Pap.	A	1,679,896	1,069,283	134,025	89,204	151,737	99,975	1,820,845	8.4
Pack. & Ind. Conv. Paper		217,159	119,140	18,774	10,406	20,505	11,538	246,056	-18.9
Special Industrial Paper		49,048	60,344	4,537	4,956	7,048	7,503	84,571	50.6
Tissue Paper		57,481	51,587	5,253	4,758	5,901	5,980	70,816	0.1
Paperboard, Total		417,117	164,685	31,432	11,367	32,477	12,126	389,725	-9.2
Convtd Paper&Paperbd Products		179,172	321,762	9,133	20,775	11,279	27,007	135,347	-39.7
Wet Machine Board		293	246	23	22	93	74	1,117	838.9
Construction Paper & Board		155,993	38,472	7,471	1,928	8,942	2,374	107,303	-60.4

NOTE: A - API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

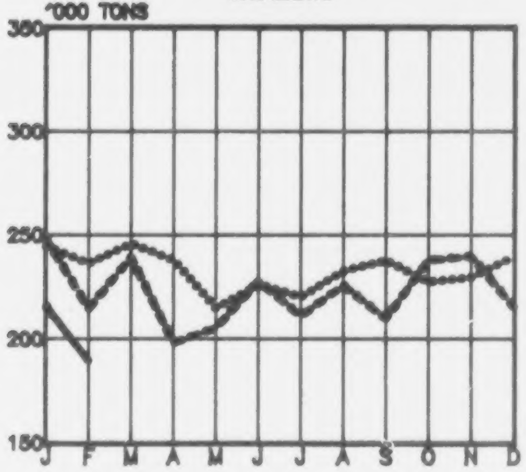
	EXPORTS TO CANADA *							
Pulpwood, Roundwood (in cords of 128 cubic feet)	82,892	1,120	0	0	29,481	3,911	353,772	117824.0
Pulpwood chips	28,218	1,241	824	24	10,804	592	129,643	1001.2
Wood Pulp, Total	352,896	141,272	35,794	13,911	36,793	16,367	441,512	128.3
Cotton Pulp & Other Pulp	6,215	4,249	523	424	341	301	4,067	-48.9
Waste Paper	284,379	38,555	23,499	3,478	51,418	8,989	617,016	212.1
Paper, Board & Products, Total	1,083,228	763,613	88,526	58,917	100,268	107,486	1,203,212	97.5
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	764,575	497,470	61,172	38,386	77,526	88,562	930,312	128.1
Paper, Paperboard & Products	1,062,560	756,810	84,752	58,329	100,202	107,430	1,202,416	100.9
Paper & Paperboard, Only	733,907	489,088	59,399	37,777	77,460	88,497	929,518	134.0
Paper, Total	371,206	340,312	30,713	26,250	44,069	50,760	538,808	144.0
Newsprint	8,316	5,891	625	401	2,475	1,066	29,696	366.3
Printing, Writing & Rel. Pap.	228,021	222,065	18,371	18,181	30,452	34,640	365,436	153.3
Pack. & Ind. Conv. Paper	65,380	29,624	6,761	2,708	4,705	3,282	86,460	114.2
Special Industrial Paper	62,846	72,965	4,475	4,189	6,152	10,508	73,823	56.2
Tissue Paper	6,834	9,787	482	615	1,175	1,308	14,102	222.6
Paperboard, Total	362,701	149,356	28,686	11,527	32,801	17,737	380,010	121.6
Convtd Paper&Paperbd Products	328,853	286,143	25,353	20,562	22,742	38,903	272,909	36.5
Wet Machine Board	1,628	660	30	20	0	0	0	-100.0
Construction Paper & Board	19,040	7,143	1,743	586	66	66	794	-92.6

SOURCE: Bureau of Census, Department of Commerce .

E - Estimate of tonnage based on square foot data

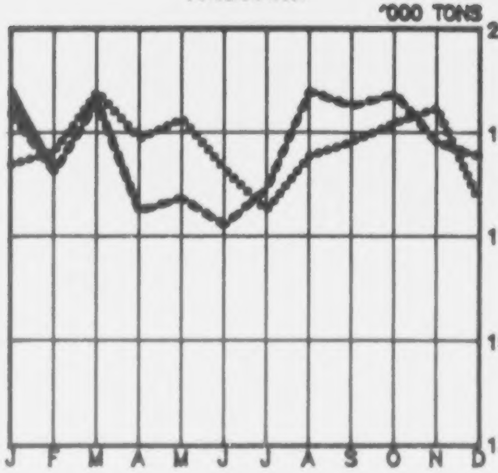
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



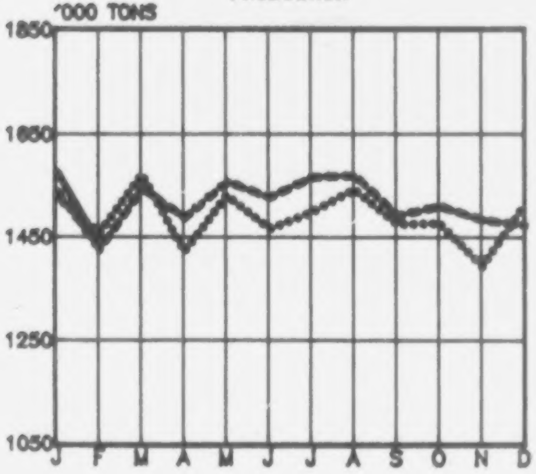
OTHER PAPER

PRODUCTION



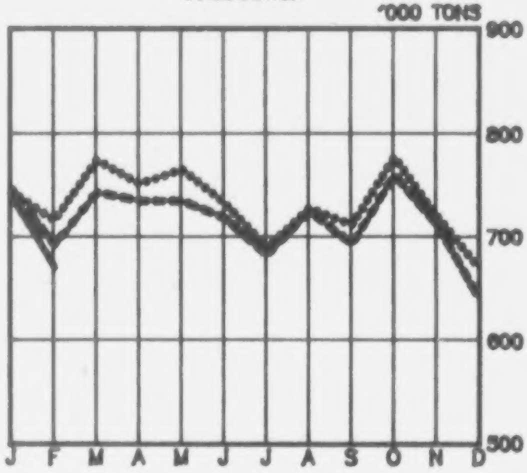
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



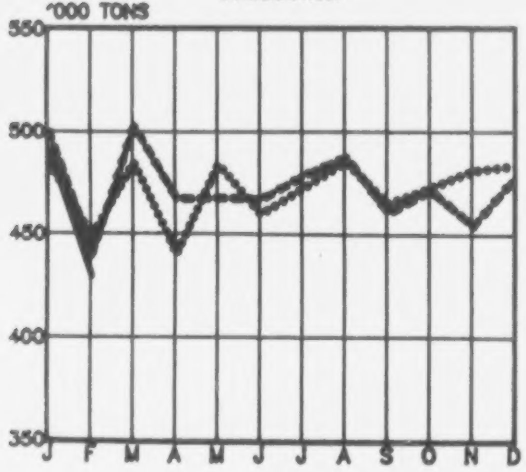
RECYCLED PAPERBOARD

PRODUCTION



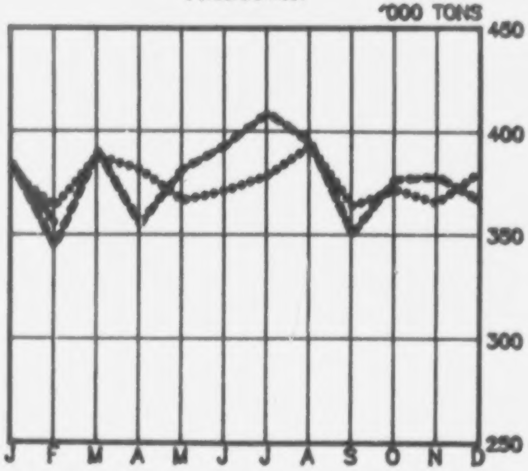
SEMICHEMICAL PAPERBOARD

PRODUCTION



SOLID BLEACHED PAPERBOARD

PRODUCTION



1988 ········ 1989 —·—·—·1990 ———

PULP, PAPER AND PAPERBOARD IMPORTS		YEAR 1989		DECEMBER 1989		JANUARY 1990		Annual Rate YTD 1990	% Change from same Period Last Year
		Tons	$000	Tons	$000	Tons	$000	Tons (1)	
Pulpwood Roundwood (cords)		211,061	4,582	22,562	365	0	0	0	-100.0
Pulpwood Chips		806,361	27,769	40,310	1,298	40,996	1,063	599,858	-38.9
Total All Imports	A	18,288,960	11,252,283	1,425,379	869,282	1,549,586	979,442	18,595,031	0.9
Wood Pulp Total	A	5,005,100	2,980,642	398,469	239,778	412,713	251,206	4,952,561	-4.5
Waste Paper		172,575	33,197	12,172	2,137	12,317	2,316	147,806	-47.8
Other Fibrous Materials		11,254	8,518	243	189	1,266	630	15,424	23.6
Paper Board & Products Total	A	13,101,072	8,329,909	1,015,646	627,178	1,123,272	725,090	13,479,269	2.8
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	A	12,537,474	7,231,648	977,656	546,526	1,089,571	634,613	13,074,852	4.8
Paper Ppbd & Prds ex Cnst&WMB	A	12,910,206	8,279,503	1,006,030	624,757	1,113,139	722,120	13,357,666	4.4
Paper & Paperboard Only	A	12,347,748	7,181,244	969,178	543,406	1,079,438	631,843	12,953,251	6.5
Paper Total	A	11,814,283	6,800,796	931,661	526,223	1,037,868	602,462	12,454,421	6.9
Newsprint	A	8,553,401	4,379,613	668,629	340,938	721,716	360,069	8,660,596	5.5
Printing & Writing	A	2,732,978	1,896,141	197,131	142,039	264,433	188,324	3,173,197	13.1
Uncoated Groundwood		1,304,114	817,785	83,799	51,229	113,258	70,508	1,359,096	0.9
Coated Print & Impreg. Pap.	A	774,022	632,484	56,866	46,483	79,544	64,571	954,528	36.1
Uncoated Free Sheet	A	583,077	462,404	51,206	37,988	65,769	46,306	789,186	22.2
Thin (except Cigarette)		12,711	15,200	1,333	1,511	1,052	1,290	12,625	-37.9
Bristols		59,052	66,267	4,836	5,851	4,814	5,967	57,762	-22.6
Total Pkg & Other Paper		407,087	414,353	36,156	34,143	41,901	45,282	502,810	-1.6
Unbleached Kraft Paper		239,303	116,011	21,130	10,086	22,325	10,583	267,896	-16.9
Other Pkg. & Indust. Paper		167,785	298,342	15,026	24,057	19,576	34,699	234,914	24.5
Tissue		120,797	110,661	9,746	9,102	9,819	9,778	117,828	-4.7
Paperboard, Total		533,465	380,446	37,517	17,182	41,569	29,380	498,830	-3.4
Test or Containerboard		85,048	34,401	7,926	3,227	8,251	3,446	99,016	4.5
Semi-Chemical Corrugating		118,176	36,462	8,552	2,541	8,803	2,590	105,634	-8.6
Other Paperboard		330,262	209,584	21,040	11,415	24,515	23,364	294,181	-3.0
Convtd Paper&Paperbd Products		562,457	1,098,259	36,851	81,352	33,701	90,277	404,417	-36.2
Paper Products, Total		470,471	924,729	31,280	70,287	26,510	76,851	318,121	-38.5
Paperboard Products, Total		91,986	173,529	5,572	11,066	7,191	13,426	86,296	-20.5
Wet machine Board		606	580	37	41	109	89	1,307	353.7
Construction Paper & Board E		189,119	40,824	8,440	2,380	10,026	2,882	120,294	-61.0
Notes									
Other: No Weight Avail. ($000)			136,624		8,452		7,797	93,564	26.1
Total Imports Incl. Other($000)			11,488,886		877,703		987,239	11,846,862	5.5

NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

PULP, PAPER AND PAPERBOARD EXPORTS	YEAR 1989		DECEMBER 1989		JANUARY 1990		Annual Rate YTD 1990	% Change from same Period Last Year
	Tons	$000	Tons	$000	Tons	$000	Tons (1)	
Pulpwood, Roundwood (cords)	137,817	3,476	3,756	49	38,551	4,149	462,612	196.8
Pulpwood Chips	4,367,811	368,154	382,984	38,533	316,702	30,409	3,798,425	1.9
Total All Exports	16,833,674	8,604,233	1,691,369	736,257	1,534,689	741,861	18,416,270	13.3
Wood Pulp, Total	6,231,172	3,512,604	684,562	328,436	420,045	251,621	5,040,536	-8.1
Cotton Pulp and Other Pulp	122,045	100,510	13,146	8,840	7,174	7,088	86,087	-11.9
Waste and Old Paper	5,960,620	729,797	478,737	57,792	525,675	67,089	6,308,098	17.6
Paper, Board & Products, Total	6,299,837	4,261,322	514,896	343,068	561,796	416,142	6,861,560	31.6
Paper, Paperboard, Wet Machine Bd. & Construction Paper & Board	5,259,802	2,982,974	436,768	242,387	493,802	292,450	5,926,823	32.4
Paper, Ppbd & Prod ex Cnst&WMB	6,263,560	4,246,565	511,369	341,701	561,234	415,834	6,874,807	32.5
Paper & Paperboard, Only	5,223,525	2,968,216	433,251	241,001	493,340	292,152	5,920,080	33.5
Paper, Total	1,465,821	1,233,814	103,115	86,518	131,303	121,270	1,575,636	34.9
Newsprint	624,798	367,381	34,678	19,450	49,913	25,816	598,960	2.9
Printing & Writing	476,270	465,456	38,845	37,638	56,968	58,949	671,400	119.2
Uncoated Groundwood	88,056	64,766	6,739	4,567	6,299	5,100	75,587	19.4
Clay Coated Paper	166,536	131,418	14,576	11,931	16,939	17,863	203,270	127.4
Uncoated Free Sheet	122,346	166,830	11,487	14,320	20,237	24,995	242,843	225.1
Other Printing & Writing	99,329	102,442	6,045	6,790	12,483	10,991	149,790	89.9
Total Pkg. & Other Paper	342,041	380,790	28,296	27,336	22,429	32,788	269,144	3.4
Unbleached Kraft	125,818	60,318	12,904	5,484	8,045	4,901	96,541	-16.5
Other Pkg. & Indust. Paper	216,223	320,472	15,393	21,853	14,384	27,885	172,603	18.3
Tissue	20,712	30,187	1,296	2,093	3,004	3,720	36,042	87.7
Paperboard, Total	3,757,704	1,734,402	330,136	164,483	362,037	170,882	4,344,444	33.0
Solid Wood Pulp	3,572,758	1,646,152	318,603	148,491	343,326	160,540	4,119,912	31.5
Total Linerboard	2,499,716	935,364	225,026	82,544	252,368	93,550	3,028,411	38.4
Bleached Kraft Linerboard	283,113	127,787	27,781	12,721	32,856	14,268	394,256	46.1
Unbleached Kraft Linerbd	2,216,603	807,578	197,245	69,823	219,513	79,282	2,634,156	37.4
Other Unbleached Kraft	246,575	113,315	15,794	8,104	23,937	13,064	287,243	30.3
Other Bleached Kraft	795,306	582,979	74,878	56,805	64,366	52,849	772,392	12.7
Semi-Chemical Corrugating	31,162	14,494	2,905	1,039	2,656	1,077	31,868	-20.5
Recycled Paperboard	184,947	88,250	11,534	5,992	18,711	10,342	224,532	69.2
Convtd Paper&Paperbd Products	1,040,036	1,278,349	78,118	100,701	87,884	123,682	1,054,727	27.1
Paper Products, Total	473,436	832,806	35,810	66,712	33,487	77,817	401,842	13.1
Paperboard Products, Total	566,601	445,543	42,309	33,989	54,407	45,866	652,885	27.8
Wet Machine Board	2,889	1,256	139	75	47	17	569	-62.5
Construction Paper & Board E	33,398	13,501	3,378	1,312	515	290	6,184	-84.4
Notes								
Other: No Weight Avail. ($000)		23,665		1,790		3,444	41,322	195.1
Total Exports Incl. Other($000)		8,627,898		740,047		745,394	8,944,730	24.2

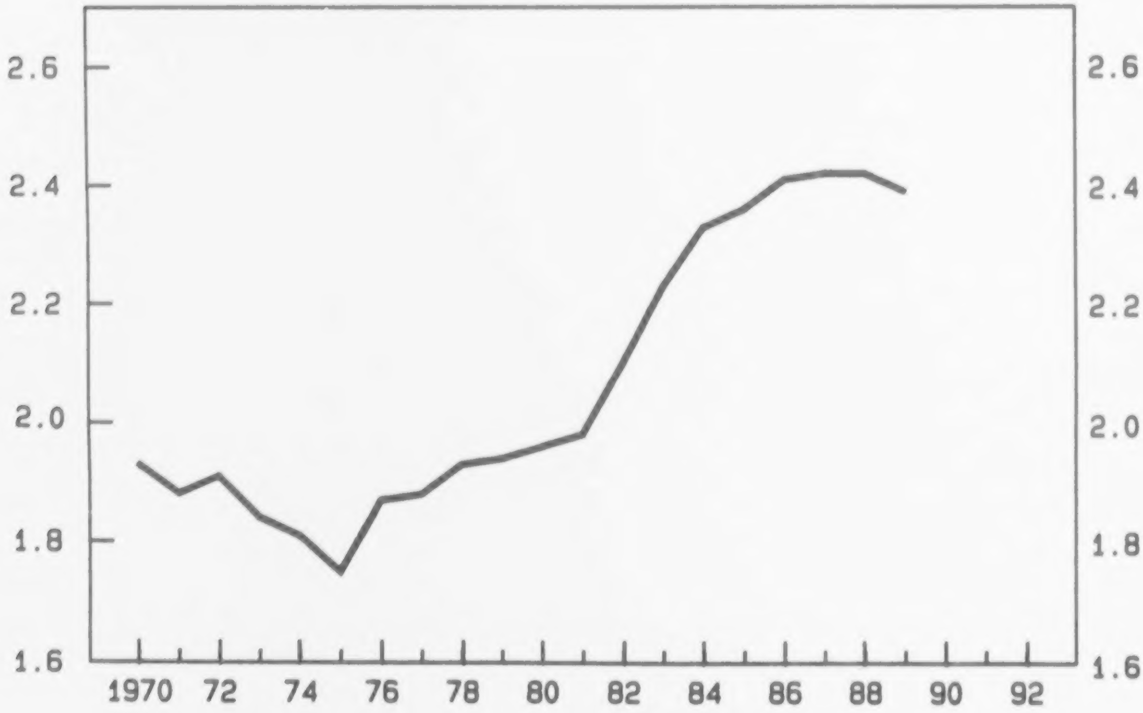
SOURCE: Bureau of Census, U.S. Department of Commerce. E – Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES 1982 = 100	YEAR		NOV	DEC	JAN	FEB	Annual Rate Y-T-D	% Change from same Period
	1988	1989	1989	1989	1989	1990	1990	Last Year
Pulp, Paper and Products except Building Grades	124.8	132.4	133.6	133.5	133.4	133.3	133.4	2.3
Pulp Paper & Products, ex. Building Grades & ex. Waste Paper *	123.8	132.0	133.3	133.2	133.1	133.0	133.1	2.5
Total Wood Pulp	136.7	157.4	160.6	159.9	159.8	160.3	160.1	5.5
Total Paper	123.2	129.6	128.2	128.2	128.0	127.5	127.8	-1.3
Total Paper, exc. Newsprint	123.4	130.5	128.8	128.7	128.4	127.9	128.2	-1.7
Newsprint	127.6	122.4	118.6	117.8	117.9	115.1	116.5	-7.7
Total Paperboard	133.2	140.1	139.7	139.6	138.8	138.4	138.6	0.3
Total Paper and Paperboard *	126.4	132.9	131.8	131.8	131.4	130.9	131.2	-0.8
Converted Products	123.0	131.7	134.5	134.5	134.5	134.6	134.6	4.6
Waste Paper	183.6	157.0	152.5	151.4	151.4	149.7	150.6	-4.7
All Commodities	106.9	112.2	112.7	113.0	114.9	114.4	114.7	3.6
Industrial Commodities	106.3	111.6	112.2	112.3	114.2	113.6	113.9	3.7

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

AD EXPENDITURES AS A % OF CURRENT-DOLLAR GNP



paperboard, total paper and total paperboard. Three new graphs -- total wood pulp consumption, market pulp production and total consumption of waste paper at paper and paperboard mills -- have been added to highlight trends of these important commodities. The graphs of the larger paper grades are on page 6; the paperboard grades on page 8. The graphs of cotton fiber and thin paper shipments, and of paperboard production for export have been deleted.

FIBROUS RAW MATERIALS

U.S. chemical paper grade market wood pulp mills ran at 99% of capacity in February. Production of these grades, at 592,000 tons, exceeded shipments by 27,000 tons. Producers built their inventories to 543,000 tons by month's end, equivalent to 29 days of supply, a level not seen since July 1985.

Through the first two months of 1990, U.S. shipments of chemical paper grade market pulp were down 9% from the same period last year. This reflects a 33% decline in shipments to Japan, a 13% decline to Western Europe and a 7% drop to the domestic market. Shipments to other markets and the Nordic region increased 11% over year-ago levels.

IMPORTS AND EXPORTS

Total tonnage exports of paper and allied products increased 9% from 1988 to 1989, while imports were up by 1%. Wood pulp and kraft linerboard exports showed the largest tonnage gains, while a 66% expansion in printing-writing papers, and the 46% increase in newsprint exports, paced the percentage advances. The 6% rise in waste paper exports was below the double-digit growth rates of the previous three years, but the tonnage level reached a new high.

Technical Note: The export data presented on pages 7 and 9 for January 1990 are not fully comparable with their 1989 counterparts. As of January 1990 the U.S. Bureau of the Censes used Statistics Canada data on Canadian imports of all commodities from the U.S. for U.S. export shipments to Canada. Last year an estimated $16 billion of U.S. merchandise exports to Canada went undocumented, reflecting a trend of long duration. The current change in reporting procedures, which is the result of several years of work between the U.S. and Canadian statistical agencies, should result in a major improvement in the U.S. export statistics.

The table at the bottom of page 7 reports U.S. exports of paper and allied products to Canada. These exports accounted for roughly one-fifth of all U.S. exports of paper and paperboard. Canada, however, accounts for relatively small tonnages of wood pulp, paperboard, and construction paper and board. Even here, the effect of the relatively low export totals reported for January 1989, which reflected, in part, start-up problems as the Bureau of the Census changed its codes to the new Harmonized System, must be considered in evaluating the 1988-1989 gains reported in this table.

GROWTH PATTERNS OF PRINT-BASED ADVERTISING

Advertising expenditures in general and print-based advertising in particular grew rapidly during the decade of the 1980's, according to data compiled by McCann-Erickson. Total advertising outlays advanced at an average annual rate of 9.9% during the 1980-89 period, while current-dollar GNP trended up 7.6% a year. As a result, advertising's share of GNP climbed from 1.94% at the beginning of the decade to 2.39% in 1989. (See graph on page 10.)

Even though ad expenditures outpaced GNP during most of the 1980's, they lagged slightly behind the overall economy in 1988 and trailed GNP by 1.4 percentage points last year. Specifically, ad outlays advanced 5.8% in 1989 while current-dollar GNP increased 7.2%. On a rate-adjusted basis, ad volume rose by less than 1% in 1989, which along with customer inventory drawdowns, contributed to last year's sluggish growth in demand for communications paper.

Predictions that print-based advertising would falter in the face of mounting competition from the electronic media proved incorrect during the 1980's. Bolstered by the strong performances of direct mail and Yellow Pages, print's share of total advertising revenues climbed from 56.5% at the beginning of the decade to 58.3% in 1989. Most of the gains took place between 1984 and 1987; the rapid growth was followed by a leveling off in print's share during 1988 and 1989 in part because of the recent sluggishness in direct mail advertising.

Although total print-based advertising increased in relative importance during the 1980's, not all categories gained ground. Newspapers saw their market share slip from 27.6% at the beginning of the decade to 26.0% in 1989. Slow growth in ad spending by retailers was a major reason for the slippage. On the other hand, classified ads and inserts grew rapidly during most of the 1980's. Annual circulation of free-standing inserts advanced at an average annual rate of 8.9% during the 1980-89 period, according to data compiled by the Newspaper Advertising Bureau. The growth pace of inserts slowed to 3.0% in 1988, but was reported at 5.9% in 1989.

ADVERTISING REVENUE DISTRIBUTION
(% of total dollars)

	1980	1988	1989
Newspapers	27.6%	26.4%	26.0%
Magazines	5.9	5.1	5.4
Direct Mail	14.2	17.9	17.8
Yellow Pages & Other	8.8	9.0	9.1
Total Print	**56.5%**	**58.4%**	**58.3%**

Source: McCann-Erickson

INDUSTRY FACT SHEET
MONTHLY STATISTICAL SUMMARY INSERT
VOL. 68, NO. 1
JANUARY, 1990

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

PRODUCTION (000 TONS)

*	(P) DECEMBER 1989	* NOVEMBER 1989	* DECEMBER 1988	* FULL YEAR 1989	* 1988	% CHANGE YR TO DATE 1989/1988
PAPER GRADES						
Newsprint	532	516	512	6,088	5,982	1.8
Printing & Writing	1,679	1,812	1,759	21,484	21,793	-1.4
Uncoated Groundwood (s)	123	153	126	1,754	1,624	8.0
Coated Paper (s)	585	616	573	7,194	7,359	-2.2
Uncoated Free Sheet Paper (s)	864	930	931	11,043	11,277	-2.1
Thin Paper (s)	14	13	17	189	217	-12.8
Cotton Fiber Paper (s)	12	12	15	157	167	-6.3
Bleached Bristols (s)	82	89	97	1,148	1,150	-0.1
Tissue Paper	460	474	450	5,636	5,476	2.9
Total Pkg & Other Paper	402	429	417	4,925	5,047	-2.4
Unbl. Kraft Paper (s)	216	241	240	2,681	2,800	-4.2
Other Paper	186	188	177	2,243	2,247	-0.2
TOTAL PAPER	3,073	3,230	3,138	38,133	38,298	-0.4
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,567	1,580	1,622	19,493	19,140	1.8
Unbleached Kraft Linerboard	1,475	1,486	1,516	18,199	17,897	1.7
Other Unbl. Kraft Paperboard	92	94	107	1,293	1,244	4.0
Semichemical Paperboard	479	455	484	5,681	5,664	0.3
Bleached Paperboard	368	379	381	4,532	4,511	0.5
Recycled Paperboard	653	728	685	8,786	8,991	-2.3
TOTAL PAPERBOARD	3,066	3,142	3,172	38,492	38,306	0.5
TOTAL PAPER AND PAPERBOARD	6,140	6,372	6,311	76,625	76,604	0.0

WOOD PULP (ALL GRADES)	NOVEMBER 1989	OCTOBER 1989	NOVEMBER 1988	FIRST 11 MONTHS 1989	1988	% Change 89/88
Dissolving & Special Alpha	132	109	112	1,310	1,240	5.6
Bleached Sulfite)	124	132	127	1,446	1,418	2.0
Unbleached Sulfite)						
Bleached & Semi-Bl. Sulfate	2,153	2,283	2,169	24,871	23,980	3.7
Unbleached Sulfate	1,756	1,862	1,711	19,906	19,793	0.6
Semichemical	351	379	365	4,014	3,991	0.6
Groundwood & Thermomechanical	505	530	489	5,509	5,458	0.9
TOTAL PULP DIVISION DATA	5,022	5,295	4,973	57,055	55,879	2.1

(s) - Shipments
P - Preliminary

January 31, 1990

	Full Year		INDUSTRY DATA 1988 - 1989			Ann. Rate Year - To - Date	% From Same Pd. Last Year
				R	P		
PAPER AND PAPERBOARD -- Tons (000)	1987	1988	October	November	December	1989	
Total Production (API).......: excluding :...	74,317	76,604	6,616	6,373	6,140	76,628	0.0
Total Seasonally Adjusted....:construction:...			6,486	6,471	6,218	76,550	0.0
Imports (including Products).: and wet :..E	12,528	12,788	1,168	1,100	1,132	13,036	1.9
Exports (including Products).: machine :..E	5,197	5,559	554	475	495	6,247	12.4
Apparent Consumption.........: grades :...	81,648 a	83,833 b	7,100	7,096	6,855	83,417 c	-0.4
Paper Production % Tonnage Capacity...........	94.4 g	95.2	95.1	93.7	86.3	92.3	-
Paperboard Production % Tonnage Capacity......	95.7 g	95.0	92.6	91.9	87.3	93.6	-
			September	October	November		
IMPORTS.....:Including Construction and :...	12,837	13,110	1,074	1,183	1,115	13,184	0.2
EXPORTS.....: WMB Grades (excl. HPB) :...	5,304	5,691	528	558	477	6,311	11.4
MARKET WOOD PULP PRODUCTION - Tons (000).........	8,114	8,565	712	682	690	8,743	2.8
TOTAL WOOD PULP PRODUCTION - Tons (000)..........	59,552	61,161	5,063	5,295	5,022	62,242	2.1
WOOD PULP IMPORTS - TONS (000)..................	4,850	5,038	428	442	388	5,025	-0.4
WOOD PULP EXPORTS - TONS (000)..................	4,889	5,528	548	502	347	6,160	13.9
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS : excluding :			September	October	November		
Wood Pulp............:consumption for:.....	59,475	60,847	4,997	5,311	4,981	61,465	1.3
Waste Paper...........:construction & :.....	17,993	18,860	1,666	1,752	1,676	20,032	5.9
TOTAL..........: WMB grades :.....	77,468	79,707	6,663	7,063	6,656	81,497	2.4
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	93,946	95,497	8,167	8,331	8,070	98,703	3.6
EMPLOYMENT (000)			October	November	December		
Paper and Allied Products..........Total......	680.1	692.6	698.2	698.2	699.9	697.3	0.7
Pulp, Paper and Board Mills........Total.....E	244.9	245.5	246.1	246.5	247.9	247.2	0.7
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			October	November	December		
Paper and Allied Products......................	11.43	11.66	11.97	12.08	12.11	11.93	2.3
Pulp, Paper Mills..........................E	14.01	14.31	14.86	15.02	14.90	14.71	2.8
Paperboard Mills...........................E	14.30	14.49	14.93	15.11	15.16	14.76	1.8
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1989 Q2	1989 Q3	1989 Q4		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	9.01	11.36	14.87	15.82	16.71	15.45 Y	36.0
INDEX OF OUTPUT PER MAN-HOUR (1977=100)..........			October	November	December		
:IN PULP, PAPER :...Production Workers..........	144.8	148.9	150.9	150.5	142.6	149.2	0.2
:AND BOARD MILLS:...All Employees..............	141.6	146.3	147.2	146.9	139.2	145.7	-0.4
PAPER AND ALLIED PRODUCTS (Million $)			September	October	November		
Industry Shipments (Dept. of Commerce)*........	118,855	127,718	10,857	10,976	11,007	130,844	2.7
Pulp, Paper and Paperboard*..................	51,518	57,177	4,774	4,742	4,759	58,057	1.7
Inventories (End of Period) - Total Industry*..	11 34	12,065	12,597	12,605	12,554	12,554	5.2
Pulp, Paper and Paperboard*..................	4, 36	4,325	4,923	5,009	4,999	4,999	17.5
			1989 Q1	1989 Q2	1989 Q3		
Sales (Corporations Only)......................	[illegible]5,576	107,221 RS	27,281	28,534	28,090	111,873	4.6
Earnings (Corporations Only)...................	5,520	8,081 RS	1,979	2,022	1,850	7,801	-5.2
Depreciation (Corporations Only)...............	4,279	4,625 RS	1,187	1,231	1,247	4,887	6.0
Net Worth (Corporations Only)..................	39,217	42,940 RS	44,093	45,242	46,513	46,513	8.1
PRICE INDEXES (Bureau of Labor Stats)1982=100			October	November	December		
Pulp, Paper & Products, ex. Building Grades....	114.3	124.7	133.6	133.6	133.5-	132.5	6.2
Wood Pulp......................................	111.6	136.7	160.8	160.6	159.9	157.5	15.2
Waste Paper....................................	181.4	183.5	158.3	152.5	151.4	157.1	-14.4
Paper..	111.5	123.2	128.6	128.2	128.2	129.6	5.2
Paperboard.....................................	118.1	133.2	140.0	139.7	139.6	140.1	5.2
PAPER DEMAND (INDEXED: 1977=100)			October	November	December		
Total Paper Production *.......................	133.0	138.1	141.1	140.5	133.7	137.5	-0.4
Paper New Supply *.............................	140.0	144.2	148.1	146.0	141.1	142.3	-1.3
Demand Indicators - (Weighted Average) *.....	154.5	163.7	178.0	179.3	179.9	175.6	7.3
Production of Nondurable Goods *...(21.2%).	136.8	143.9	152.2	152.7	152.6	150.4	4.6
Disposable Income ....*.(23.9%)	130.0	134.9	141.5	142.4	142.6	140.7	4.2
Total Printing and Publishing *...(54.9%).	172.0	183.8	203.8	205.6	206.6	200.4	9.1
Trend Factor	------------	------------	------------	Not Available	------------	------------	------------
PAPERBOARD DEMAND (INDEXED: 1977=100)							
Total Paperboard Production *..................	129.2	132.2	133.8	133.8	129.8	132.8	0.5
Production for Domestic Use	126.2	129.5	130.3	131.1	125.3	129.9	0.3
Demand Indicators - (Weighted Average) *.....	125.9	132.5	137.5	137.6	138.1	137.1	3.5
Production of Consumer Goods *...(62.06%)	127.7	133.9	139.9	139.8	140.6	139.3	4.0
Production of Equipment *...(5.75%)	148.8	158.2	162.0	163.7	166.1	164.3	3.9
Production of Materials *...(32.19%)	118.3	125.3	128.6	128.6	128.2	128.1	2.3
Trend Factor	------------	------------	------------	Not Available	------------	------------	------------
NEWSPRINT MARKETS			September	October	November		
Consumption by Publishers - Tons (000)..........	13,583	13,597	1,140	1,221	1,210	13,510	-0.6
Newspaper Pub. and Printing Empl. Total(000)...	471	475	476	478	482	477	0.5
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (PIB, Inc.)...........	164,771	171,845	17,021	18,565	17,681	176,867	3.3
WHOLESALERS SALES AND INVENTORIES (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	44,741	52,377	4,797	5,181	5,014	56,845	8.7
Inventories (End of Period).	3,850	4,436	4,467	4,658	4,600	4,600	7.2
FIBRE BOX DATA (Fibre Box Association)			October	November	December		
Fibre Box Shipments (Million square feet).......	297,827	308,507	28,991	25,173	23,131	312,205	1.2
Container'bd Inventory at Mill & Plant(000Tons).	2,486	2,553	2,460	2,450	2,501	2,501	-2.0
RETAIL TRADE (Billion $)			October	November	December		
Total Retail Sales *...........................	1,511	1,612	143.4	144.2	144.4	1,711	6.2
Nondurable Goods Stores Sales *................	950	998	89.4	90.2	90.7	1,061	6.4
GENERAL ECONOMIC DATA			October	November	December		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1977 = 100)*..	129.8	137.2	141.8	142.3	142.8	141.7	3.3
PRODUCER PRICES(ALL COMMODITIES)(INDEX 1982=100).	102.8	106.9	112.7	112.7	113.0	112.2	4.9
CONSUMER PRICES (ALL ITEMS-URBAN CON.)('82-4=100)	113.6	118.3	125.6	125.9	126.1	124.0	4.8
			September	October	November		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $)..	618.2	671.4	709.6	711.3	716.5	716.5	8.7
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$)..			1989 Q2	1989 Q3	1989 Q4		
G.N.P. or Expenditure - Current $..............	4,524	4,881	5,202	5,281	5,337	5,233	7.2
G.N.P. or Expenditure - 1982 $.................	3,854	4,024	4,133	4,163	4,168	4,143	2.9

lb/capita				
Pap&Papbd	Othr	Totl	Popul(mil)	
.a - 669	+ 17	= 686	243.9	
.b - 681	+ 17	= 698	246.3	
.c - 671	+ 17	= 688	248.8	

.E - Last month estimated by API

f - Wood Pulp Production excludes def., explo. & scrngs.
g - Adjusted for holiday shutdowns
h - First 3 quarters, annual rate
Q - Quarter

R - Revised
Y - Full year estim. by U.S. Dept. of Com.
RS - Revised Series
* - Seasonally Adjusted.

INDUSTRY FACT SHEET
MONTHLY STATISTICAL SUMMARY INSERT
VOL. 68, NO. 2
FEBRUARY, 1990

PRODUCTION (000 TONS)

	(P) JAN 1990	(R) DEC 1989	JAN 1989	FULL YEAR 1989	FULL YEAR 1988	% CHANGE YR TO DATE 1990/1989
PAPER GRADES						
Newsprint	556	532	507	6,088	5,982	9.6
Printing & Writing	1,898	1,684	1,881	21,540	21,857	0.9
Uncoated Groundwood (s)	157	123	150	1,754	1,624	5.3
Coated Paper (s)	638	585	634	7,194	7,359	0.6
Uncoated Free Sheet Paper (s)	972	864	966	11,043	11,277	0.7
Thin Paper (s)	18	18	19	245	281	-4.9
Cotton Fiber Paper (s)	13	12	14	157	167	-2.6
Bleached Bristols (s)	100	82	100	1,148	1,150	-0.1
Tissue Paper	490	460	466	5,636	5,476	5.2
Total Pkg & Other Paper	414	402	443	4,925	5,047	-6.4
Unbl. Kraft Paper (s)	216	216	249	2,681	2,800	-13.1
Other Paper	198	186	194	2,243	2,247	2.2
TOTAL PAPER	3,358	3,077	3,297	38,189	38,363	1.9
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,685	1,567	1,657	19,493	19,140	1.7
Unbleached Kraft Linerboard	1,576	1,475	1,539	18,199	17,897	2.4
Other Unbl. Kraft Paperboard	110	92	117	1,293	1,244	-6.7
Semichemical Paperboard	490	479	500	5,681	5,664	-2.0
Bleached Paperboard	384	368	384	4,532	4,511	0.0
Recycled Paperboard	725	639	747	8,592	8,789	-2.9
TOTAL PAPERBOARD	3,285	3,053	3,287	38,299	38,104	-0.1
TOTAL PAPER AND PAPERBOARD	6,643	6,130	6,584	76,488	76,467	0.9

WOOD PULP (ALL GRADES)	DEC 1989	NOV 1989	DEC 1988	FULL YEAR 1989	FULL YEAR 1988	% CHANGE YR TO DATE 1990/1989
Dissolving & Special Alpha	117	133	127	1,427	1,367	4.4
Bleached Sulfite) Unbleached Sulfite)	120	124	143	1,567	1,560	0.4
Bleached & Semi-Bl. Sulfate	2,110	2,152	2,323	26,979	26,302	2.6
Unbleached Sulfate	1,743	1,756	1,838	21,648	21,631	0.1
Semichemical	357	351	367	4,370	4,358	0.3
Groundwood & Thermomechanical	523	505	484	6,032	5,943	1.5
TOTAL PULP DIVISION DATA	4,969	5,021	5,282	62,023	61,161	1.4

(s) - Shipments
P - Preliminary
R - Revised

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

February 28, 1990

	1988	1989	INDUSTRY DATA 1989 - 1990			Ann. Rate Year-To-Date 1990	% From Same Period Last Year
				R	P		
PAPER AND PAPERBOARD — Tons (000)			Nov	Dec	Jan		
Total Production (API) excluding	76,467	76,488	6,361	6,130	6,643	79,714	0.9
Total Seasonally Adjusted construction			6,459	6,209	6,451	77,407	3.4
Imports (including Products) and wet E	12,788	12,910	1,100	1,008	1,090	13,080	2.2
Exports (including Products) machine E	5,559	6,264	475	511	522	6,264	19.0
Apparent Consumption grades	83,695 a	83,135 b	7,084	6,703	7,019	86,530 c	2.3
Paper Production % Tonnage Capacity	95.4 g	92.4	93.8	88.4	93.9	93.9	-
Paperboard Production % Tonnage Capacity	94.5 g	93.1	91.5	86.9	92.6	92.6	-
			Oct	Nov	Dec		
IMPORTS.....Including Construction and	13,110	13,100	1,183	1,115	1,015	N.A.	N.A.
EXPORTS.....: WMB Grades (excl. HPB)	5,691	6,300	528	477	515	N.A.	N.A.
MARKET WOOD PULP PRODUCTION - Tons (000)	8,585	8,684	682	681	648	N.A.	N.A.
TOTAL WOOD PULP PRODUCTION - Tons (000)	61,161	62,023	5,295	5,021	4,989	N.A.	N.A.
WOOD PULP IMPORTS - TONS (000)	5,038	5,005	442	388	398	N.A.	N.A.
WOOD PULP EXPORTS - TONS (000)	5,528	6,231	502	347	585	N.A.	N.A.
RAW MATERIALS CONSUMPTION - Tons (000)							
PAPER AND BOARD MILLS excluding			Oct	Nov	Dec		
Wood Pulp consumption for	60,847	61,309	5,311	4,979	4,988	N.A.	N.A.
Waste Paper construction &	19,021	19,994	1,760	1,674	1,593	N.A.	N.A.
TOTAL WMB grades	79,868	81,303	7,070	6,652	6,581	N.A.	N.A.
PULPWOOD CONSUMPTION Cords (000) Amer. Pulpwd. Assn	95,497	98,414	8,331	8,070	7,936	N.A.	N.A.
EMPLOYMENT (000)			Nov	Dec	Jan		
Paper and Allied Products Total	692.6	697.3	698.2	699.9	696.4	696.4	0.6
Pulp, Paper and Board Mills Total E	247.2	247.1	248.5	247.9	248.5	248.5	0.4
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			Nov	Dec	Jan		
Paper and Allied Products	11.86	11.93	12.08	12.11	12.08	12.08	2.6
Pulp, Paper Mills E	14.31	14.71	15.02	14.90	14.95	14.95	3.5
Paperboard Mills E	14.49	14.76	15.11	15.16	15.10	15.10	4.4
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1989 Q2	1989 Q3	1989 Q4		
(Rept. by US Dept. of Com., Ann. Rates, Bill $)*	11.36	15.45	14.87	15.82	16.71	17.92 Y	16.0
INDEX OF OUTPUT PER MAN-HOUR (1977=100)			Nov	Dec	Jan		
IN PULP, PAPER ... Production Workers	148.7	149.0	150.2	142.4	151.0	151.0	-1.3
AND BOARD MILLS:... All Employees	145.1	145.5	146.6	139.0	147.8	147.8	-0.9
PAPER AND ALLIED PRODUCTS (Million $)			Oct	Nov	Dec		
Industry Shipments (Dept. of Commerce)*	127,718	130,507	10,976	11,007	10,587	N.A.	N.A.
Pulp, Paper and Paperboard*	57,177	57,698	4,742	4,759	4,479	N.A.	N.A.
Inventories (End of Period) - Total Industry*	12,085	12,580	12,605	12,554	12,580	N.A.	N.A.
Pulp, Paper and Paperboard*	4,325	4,989	5,009	4,999	4,989	N.A.	N.A.
			1989 Q1	1989 Q2	1989 Q3		
Sales (Corporations Only)	107,221	111,873 h	27,281	28,534	28,090	N.A.	N.A.
Earnings (Corporations Only)	8,081	7,801 h	1,979	2,022	1,850	N.A.	N.A.
Depreciation (Corporations Only)	4,625	4,887 h	1,187	1,231	1,247	N.A.	N.A.
Net Worth (Corporations Only)	42,940	46,513 i	44,093	45,242	46,513	N.A.	N.A.
PRICE INDEXES (Bureau of Labor Stats)1982=100			Nov	Dec	Jan		
Pulp, Paper & Products, ex. Building Grades	124.8	132.4	133.6	133.5	133.4	133.4	3.0
Wood Pulp	136.7	157.5	160.6	159.9	159.8	159.8	5.5
Waste Paper	183.6	157.1	152.5	151.4	151.4	151.4	-3.8
Paper	123.2	129.6	128.2	128.2	128.0	128.0	-0.5
Paperboard	133.2	140.1	139.7	139.6	138.8	138.8	0.8
PAPER DEMAND (INDEXED: 1977=100)			Nov	Dec	Jan		
Total Paper Production *	138.4	137.7	140.6	133.8	141.7	141.7	1.6
Paper New Supply *	144.4	142.1	146.1	137.6	146.3	146.3	1.2
Demand Indicators - (Weighted Average) *	163.7	175.7	179.9	180.5	181.2	181.2	6.3
Production of Nondurable Goods *...(21.2%)	143.9	150.4	152.7	152.4	152.7	152.7	2.8
Disposable Income *...(23.9%)	134.9	140.7	142.4	142.8	142.7	142.7	3.3
Total Printing and Publishing *...(54.9%)	183.8	200.7	206.8	207.7	209.0	209.0	8.3
				Not Available			
PAPERBOARD DEMAND (INDEXED: 1977=100)							
Total Paperboard Production *	131.5	132.1	133.1	129.3	131.7	131.7	-0.7
Production for Domestic Use	128.8	129.2	130.4	124.7	127.1	127.1	-1.6
Demand Indicators - (Weighted Average) *	132.5	137.2	137.9	138.3	135.9	135.9	-0.4
Production of Consumer Goods *...(62.06%)	133.9	139.4	140.5	141.4	138.2	138.2	-0.2
Production of Equipment *...(5.75%)	158.2	164.2	163.2	164.9	162.9	162.9	1.1
Production of Materials *...(32.19%)	125.3	128.1	128.4	127.6	126.6	126.6	-1.2
				Not Available			
NEWSPRINT MARKETS			Oct	Nov	Dec		
Consumption by Publishers - Tons (000)	13,597	13,563	1,221	1,210	1,178	N.A.	N.A.
Newspaper Pub. and Printing Empl. Total(000)	475	478	478	482	483	N.A.	N.A.
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (PIB, Inc.)	172,580	177,312	18,565	17,681	15,184	N.A.	N.A.
WHOLESALERS SALES AND INVENTORIES (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	52,377	56,512	5,181	4,877	4,541	N.A.	N.A.
Inventories (End of Period)	4,436	4,398	4,658	4,477	4,398	N.A.	N.A.
FIBRE BOX DATA (Fibre Box Association)			Nov	Dec	Jan		
Fibre Box Shipments (Million square feet)	308,507	312,205	25,173	23,131	27,462	329,544	3.5
Container bd Inventory at Mill & Plant(000Tons)	2,553	2,501	2,449	2,501	2,705	2,705	-0.1
RETAIL TRADE (Billion $)			Nov	Dec	Jan		
Total Retail Sales *	1,622	1,711	144.4	144.1	146.4	1,757	4.6
Nondurable Goods Stores Sales *	995	1,062	90.3	91.1	91.4	1,097	5.8
GENERAL ECONOMIC DATA			Nov	Dec	Jan		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1977 = 100)*	137.2	141.7	142.2	142.5	140.9	140.9	0.1
PRODUCER PRICES(ALL COMMODITIES)(INDEX 1982=100)	108.9	112.2	112.7	113.0	114.9	114.9	4.0
CONSUMER PRICES (ALL ITEMS-URBAN CON.)(1982-4=100)	118.3	124.0	125.9	126.1	127.4	127.4	5.2
			Oct	Nov	Dec		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $)	671.4	729.3	711.3	716.9	729.3	N.A.	N.A.
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$)			1989 Q2	1989 Q3	1989 Q4		
G.N.P. or Expenditure - Current $	4,881	5,233	5,202	5,281	5,338	N.A.	N.A.
G.N.P. or Expenditure - 1982 $	4,024	4,144	4,133	4,163	4,172	N.A.	N.A.

Pounds Per Capita

	Pap & Papbd		Other		Total	Popul (mil)
a -	677	+	14	=	691	247.4
b -	665	+	13	=	678	249.9
c -	693	+	13	=	706	249.9

f - Wood Pulp Production excludes def., explo & scr.

h - First 3 quarters, annual rate

i - End of Sept Q - Quarter

R -Revised Y - Full year est by Dept of Commerce

E - Last month est by API

INDUSTRY FACT SHEET
MONTHLY STATISTICAL SUMMARY INSERT
VOL. 68, NO. 3
MARCH, 1990

PRODUCTION (000 TONS)

	(P) FEB 1990	(R) JAN 1990	FEB 1989	FIRST TWO MONTHS 1990	FIRST TWO MONTHS 1989	% CHANGE YR TO DATE 1990/1989
PAPER GRADES						
Newsprint	510	553	445	1,063	952	11.6
Printing & Writing	1,742	1,929	1,705	3,671	3,586	2.4
Uncoated Groundwood (s)	145	157	133	302	283	6.8
Coated Paper (s)	569	642	550	1,210	1,184	2.2
Uncoated Free Sheet Paper (s)	903	994	897	1,898	1,863	1.9
Thin Paper (s)	21	23	21	44	39	12.5
Cotton Fiber Paper (s)	13	13	13	27	27	-2.0
Bleached Bristols (s)	90	100	90	190	190	0.0
Tissue Paper	452	474	437	925	902	2.5
Total Pkg & Other Paper	373	414	398	788	841	-6.3
Unbl. Kraft Paper (s)	190	216	215	406	464	-12.4
Other Paper	183	198	183	381	377	1.3
TOTAL PAPER	3,077	3,370	2,985	6,447	6,281	2.6
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,536	1,685	1,521	3,221	3,178	1.4
Unbleached Kraft Linerboard	1,435	1,576	1,427	3,011	2,966	1.5
Other Unbl. Kraft Paperboard	101	110	94	210	212	-0.5
Semichemical Paperboard	430	490	440	920	939	-2.1
Bleached Paperboard	356	384	345	740	729	1.5
Recycled Paperboard	671	741	693	1,412	1,440	-1.9
TOTAL PAPERBOARD	2,993	3,300	2,999	6,293	6,286	0.1
TOTAL PAPER AND PAPERBOARD	6,070	6,670	5,983	12,740	12,567	1.4

WOOD PULP (ALL GRADES)	JAN 1990	DEC 1989	JAN 1989	FIRST MONTH 1990	FIRST MONTH 1989	% CHANGE YR TO DATE 1990/1989
Dissolving & Special Alpha	127	117	127	127	127	-0.2
Bleached Sulfite)	125	122	142	125	142	-12.2
Unbleached Sulfite)						
Bleached & Semi-Bl. Sulfate	2,387	2,108	2,380	2,387	2,380	0.3
Unbleached Sulfate	1,908	1,765	1,900	1,908	1,900	0.4
Semichemical	389	357	393	389	393	-1.1
Groundwood & Thermomechanical	548	523	519	548	519	5.6
TOTAL PULP DIVISION DATA	5,483	4,991	5,462	5,483	5,462	0.4

(s) - Shipments
P - Preliminary
R - Revised

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

March 31, 1990

	1988	1989	INDUSTRY DATA 1989 – 1990	R	P	Ann. Rate Year-To-Date 1990	% From Same Period Last Year
PAPER AND PAPERBOARD — Tons (000)			Dec	Jan	Feb		
Total Production (API)......: excluding	76,467	76,468	6,130	6,670	6,070	76,440	1.4
Total Seasonally Adjusted....: construction			6,209	6,477	6,433	77,460	1.2
Imports (including Products).: and wet .... E	12,780	12,910	1,006	1,113	995	12,649	1.8
Exports (including Products).: machine .... E	5,569	6,294	511	581	520	6,607	14.4
Apparent Consumption......... grades	83,695 a	83,135 b	6,703	7,009	6,908	82,481 c	–0.9
Paper Production % Tonnage Capacity	95.4 g	92.4	96.4	94.2	95.0	94.6	-
Paperboard Production % Tonnage Capacity	94.5 g	93.1	96.9	93.0	93.3	93.2	-
			Nov	Dec	Jan		
IMPORTS.....:Including Construction and :	13,110	13,101	1,115	1,016	1,123	13,479	2.8
EXPORTS.....: WMS Grades (excl. HPB) :	5,691	6,300	477	515	582	6,982	31.6
MARKET WOOD PULP PRODUCTION – Tons (000)	8,565	8,894	691	649	771	9,247	–0.8
TOTAL WOOD PULP PRODUCTION – Tons (000)	61,161	61,986	5,021	4,901	5,469	65,800	0.4
WOOD PULP IMPORTS – TONS (000)	5,038	5,006	388	389	413	4,953	–4.5
WOOD PULP EXPORTS – TONS (000)	5,528	6,231	347	565	420	5,041	–8.1
RAW MATERIALS CONSUMPTION – Tons (000)							
PAPER AND BOARD MILLS excluding			Nov	Dec	Jan		
Wood Pulp..........consumption for:	60,294	60,725	4,933	4,946	5,332	63,988	0.3
Waste Paper..........construction &	19,021	19,997	1,674	1,595	1,767	21,209	6.7
TOTAL..........WMS grades:	79,315	80,722	6,607	6,540	7,100	85,196	1.8
PULPWOOD CONSUMPTION Cords (000) Amer. Pulpwd. Assn	95,497	98,414	8,070	7,936	8,553	102,636	2.3
EMPLOYMENT (000)			Dec	Jan	Feb		
Paper and Allied Products........Total	692.6	697.2	698.8	693.4	693.1	693.3	0.2
Pulp, Paper and Board Mills.......Total ..... E	247.2	247.1	247.9	247.2	246.1	246.7	0.7
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			Dec	Jan	Feb		
Paper and Allied Products	11.66	11.93	12.14	12.13	12.11	12.12	2.8
Pulp, Paper Mills..... E	14.31	14.71	14.97	14.98	14.98	14.98	3.4
Paperboard Mills....... E	14.49	14.76	15.16	14.98	14.95	14.97	3.1
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1989 Q2	1989 Q3	1989 Q4		
(Rept. by US Dept. of Com., Ann. Rates, Bill $)*	11.36	15.45	14.87	15.82	16.71	17.92 Y	16.0
INDEX OF OUTPUT PER MAN-HOUR (1977=100)			Dec	Jan	Feb		
IN PULP, PAPER ....Production Workers	146.7	149.0	142.1	152.6	150.9	151.7	0.4
AND BOARD MILLS:....All Employees	145.1	145.5	139.0	148.8	146.9	147.9	0.3
PAPER AND ALLIED PRODUCTS (Million $)			Nov	Dec	Jan		
Industry Shipments (Dept. of Commerce)*	127,718	130,501	11,007	10,561	10,679	128,136	–2.4
Pulp, Paper and Paperboard*	57,177	57,700	4,759	4,461	4,550	54,600	–7.4
Inventories (End of Period) – Total Industry*	12,066	12,571	12,554	12,571	12,722	12,722	5.2
Pulp, Paper and Paperboard*	4,325	4,960	4,999	4,960	4,996	4,996	11.6
PAPER AND ALLIED PRODUCTS COMPANIES			1989 Q2	1989 Q3	1989 Q4		
Sales (Corporations Only)	107,221	112,238	28,534	28,096	28,327	N.A.	N.A.
Earnings (Corporations Only)	8,081	7,000	2,022	1,850	1,149	N.A.	N.A.
Depreciation (Corporations Only)	4,625	4,954	1,231	1,247	1,289	N.A.	N.A.
Net Worth (Corporations Only)	42,940	45,888	45,242	46,513	45,686	N.A.	N.A.
PRICE INDEXES (Bureau of Labor Stats)1982=100			Dec	Jan	Feb		
Pulp, Paper & Products, ex. Building Grades	124.8	132.4	133.5	133.4	133.3	133.4	2.3
Wood Pulp	136.7	157.4	159.9	159.8	160.3	160.1	5.5
Waste Paper	183.6	157.0	151.4	151.4	149.7	150.6	–4.7
Paper	123.2	129.6	128.2	128.0	127.5	127.8	–1.3
Paperboard	133.2	140.1	139.6	138.8	138.4	138.6	0.3
PAPER DEMAND (INDEXED: 1977=100)			Dec	Jan	Feb		
Total Paper Production *	138.4	137.7	133.8	142.2	140.9	141.6	2.5
Paper New Supply *	144.4	142.1	137.6	147.1	143.0	145.0	2.3
Demand Indicators – (Weighted Average) *	163.7	175.6	179.2	180.4	181.3	180.8	5.7
Production of Nondurable Goods.........*....(21.2%)	143.9	150.4	151.9	152.5	152.2	152.4	2.7
Disposable Income..........*....(23.9%)	134.9	140.6	142.7	142.2	142.8	142.5	2.5
Total Printing and Publishing..........*....(54.9%)	193.8	200.6	205.8	207.8	209.3	208.6	7.6
				– Not Available –			
PAPERBOARD DEMAND (INDEXED: 1977=100)							
Total Paperboard Production *	131.5	132.1	129.3	132.4	131.8	132.1	–0.2
Production for Domestic Use	128.8	129.2	124.7	127.7	127.9	127.8	–0.9
Demand Indicators – (Weighted Average) *	132.5	137.2	138.0	135.8	137.0	136.4	0.0
Production of Consumer Goods..........*....(62.06%)	133.9	139.4	141.0	139.0	139.7	139.9	0.2
Production of Equipment..........*....(5.75%)	158.2	164.2	164.8	163.5	164.9	164.2	1.8
Production of Materials..........*....(32.19%)	126.3	128.1	127.3	126.7	126.8	126.9	–0.8
				– Not Available –			
NEWSPRINT MARKETS			Nov	Dec	Jan		
Consumption by Publishers – Tons (000)	13,497	13,493	1,229	1,134	1,067	12,804	1.1
Newspaper Pub. and Printing Empl. Total(000)	475	478	482	483	481	481	0.6
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (PIB, Inc.)	172,580	177,589	17,681	15,184	10,400	124,790	–6.6
WHOLESALERS SALES AND INVENTORIES (Million $)							
Total Paper & Pap. Prdcts., ex Wallpaper Sales	52,377	56,803	4,877	4,832	4,493	53,916	0.6
Inventories (End of Period)	4,436	4,508	4,477	4,508	4,485	4,485	–5.1
FIBRE BOX DATA (Fibre Box Association)			Dec	Jan	Feb		
Fibre Box Shipments (Million square feet)	308,507	312,205	23,131	27,532	24,544	312,456	2.6
Container'bd Inventory at Mill & Plant(000Tons)	2,553	2,501	2,501	2,705	2,694	2,694	3.1
RETAIL TRADE (Billion $)			Dec	Jan	Feb		
Total Retail Sales *	1,622	1,711	143.9	147.9	146.5	1,767	5.4
Nondurable Goods Stores Sales *	986	1,062	91.0	91.4	91.7	1,099	6.1
GENERAL ECONOMIC DATA			Dec	Jan	Feb		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1977 = 100)*	137.2	141.7	142.4	141.0	141.8	141.4	0.5
PRODUCER PRICES(ALL COMMODITIES)(INDEX 1982=100)	106.9	112.2	113.0	114.9	114.4	114.7	3.6
CONSUMER PRICES (ALL ITEMS–URBAN CON.)(1982–4=100)	118.3	124.0	126.1	127.4	128.0	127.7	5.2
			Nov	Dec	Jan		
TOTAL CONSUMER CREDIT OUTSTANDING – (Billion $)	671.4	728.7	716.9	728.7	723.1	723.1	5.6
GROSS NATIONAL PRODUCT – ANNUAL RATE (Billion$)			1989 Q2	1989 Q3	1989 Q4		
G.N.P. or Expenditure – Current $	4,881	5,233	5,202	5,281	5,338	N.A.	N.A.
G.N.P. or Expenditure – 1982 $	4,024	4,144	4,133	4,163	4,172	N.A.	N.A.

Pounds Per Capita

	Pap & Papbd		Other		Total	Popul (mil)
a –	677	+	14	=	691	247.4
b –	665	+	13	=	678	248.9
c –	660	+	13	=	673	248.9

f – Wood Pulp Production excludes def., explo & scr.
h – First 3 quarters, annual rate
i – End of Sept Q – Quarter

R –Revised Y – Full year est by Dept of Commerce
E – Last month est by API

A2500-2

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol.68 No.4 APRIL 1990

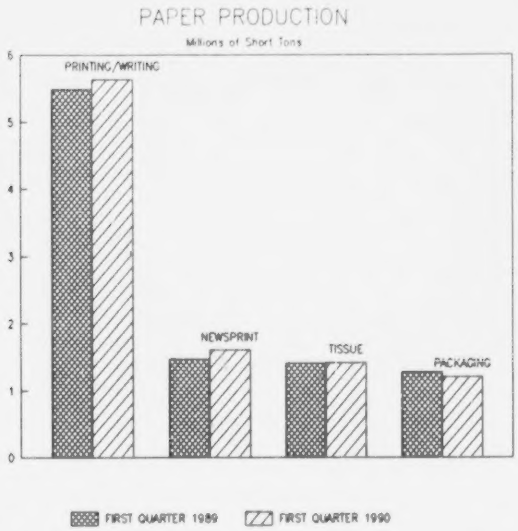
PRODUCTION INCHING UPWARD

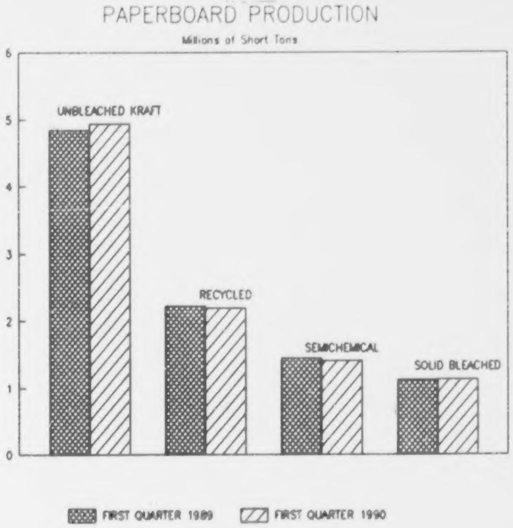
Paper and paperboard production recovered from the fourth quarter 1989 impacts of cold weather, Hurricane Hugo and the West Coast earthquakes. The first quarter 1990 seasonally-adjusted production rate was 77.7 million tons per year, 1.3% above its year-ago rate, with paper showing a somewhat larger increase than paperboard.

Paper: Newsprint production advances, reflecting the addition of two new mills and another new machine at an existing mill, continue to lead the paper grades. Total consumption of newsprint in the United States, however, is holding near its year-ago level, with small increases in consumption at newspapers offsetting declines in inserts.

Gains in production of uncoated groundwood dominate the changes in the printing-writing grades. This probably reflects continuation of a trend by book publishers and commercial printers toward greater use of the uncoated groundwood grades. Coated papers are making modest gains, equally shared by the coated groundwood and coated free sheet sectors.

The declines evident in shipments of unbleached kraft paper grades largely reflect weakness in grocers bag and sack papers, with the multiwall bag and sack market showing relatively smaller declines. Part of these dips were offset by the expansion of paper shipments for wraps and other converted products.





Copyright © 1990 American Paper Institute 260 Madison Avenue New York, N.Y. 10016

Paperboard: Production of unbleached kraft linerboard for domestic use was 1.1% ahead of its year-ago level in the first quarter of 1990, just about offsetting the decline in production of the recycled grades. Corrugating medium followed an opposite trend, with increases in the recycled grades tempering a 2.2% drop in semichemical corrugating medium.

On balance, total first quarter 1990 production of containerboard for domestic use was only fractionally below its pace at this time last year, which compares to a 0.8% gain in shipments of fiber boxes. Inventories of containerboard at mills and plants ended the quarter at 5.9 weeks of supply, equal to their year-end 1989 rate.

Total containerboard production, at an annual rate of 26.6 million tons, edged 0.5% ahead of its comparable 1989 rate, due primarily to an 8% surge in production for export.

Total boxboard production registered a 0.3% gain in the first quarter of 1990. Folding boxboard production moved up 0.4% from this period last year with an 8.1% advance in the unbleached kraft sector outweighing a 3.6% setback in the bleached sector.

Milk carton and food service boxboard for domestic use rose 1.0% from its year-ago level, led by a 6% gain in milk carton stock and a smaller increase in cup stock. Total output of these grades was strengthened by a jump in exports. The 11.7% boost in total boxboard for export was concentrated in these grades.

Year-to-date production of other boxboard for domestic use continues to lag the pace it set last year, but production in March 1990 rallied to equal that of March 1989.

FIBROUS MATERIALS

March production of chemical paper grade market wood pulp, at 571,000 short tons, brought year-to-date production to 1.8 million tons, which was well ahead of shipments. At the end of the first quarter of 1989 shipments and production were nearly equal and producers' inventories were a scant 13 days of supply. By the end of March 1990 these inventories had more than doubled to 27 days of supply, remaining close to the recent highs posted in the first two months of 1990.

The chemical paper grade market wood pulp capacity utilization rate dipped to 86% in March, lowering the year-to-date average to 93%, compared to 99% in the first quarter last year. This rate represented a high relative to the other major pulp manufacturing countries: Canada, Sweden and Finland.

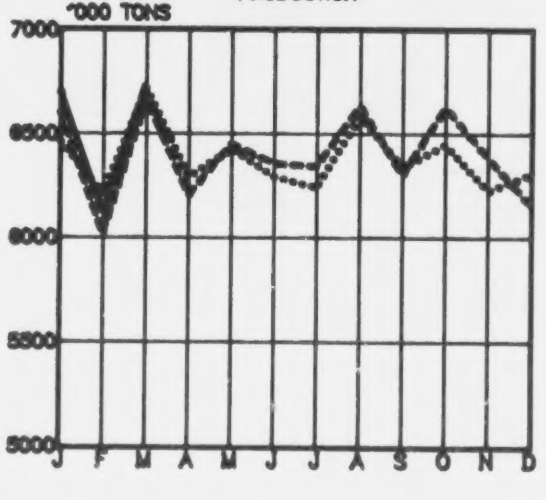
Continued on Page 11

PAPER AND PAPERBOARD STATISTICS PRODUCTION, SHIPMENTS AND ORDERS (Thousands of Tons)	YEAR		DEC	JAN	FEB R	MAR P	Annual Rate Y-T-D	% Change From Same Period
	1988	1989	1989	1990	1990	1990	1990	Last Year
PAPER								
Newsprint – Production	5,982	6,088	532	553	510	543	6,422	9.3
– Shipments	5,969	6,079	529	548	516	543	6,426	11.3
Printing & Writing: Total Shipments	21,857	21,540	1,684	1,932	1,779	1,929	22,560	2.8
Groundwood Paper – Shipments	1,624	1,754	123	157	142	160	1,832	6.7
– New Orders	1,654	1,784	150	162	150	136	1,792	3.8
– Unfilled Orders	208	211	211	224	234	216	216	5.7
Coated Papers – Shipments	7,359	7,194	585	643	578	616	7,349	2.5
– New Orders	7,412	7,262	585	612	531	645	7,149	1.9
– Unfilled Orders	751	822	822	787	737	761	761	8.7
Unctd Free Sheet – Shipments	11,277	11,043	864	996	930	1,008	11,734	2.4
– New Orders	11,298	11,132	914	960	992	1,091	12,172	8.4
– Unfilled Orders	790	784	784	743	816	897	897	31.0
Thin Papers – Shipments	281	245	18	23	21	23	265	5.8
Cotton Fiber Paper – Shipments	167	157	12	13	14	15	168	–0.7
Bleached Bristols – Shipments	1,150	1,148	82	100	96	107	1,213	2.3
Tissue Paper – Production	5,476	5,636	460	474	452	492	5,669	0.9
Total Packaging & Other Paper	5,047	4,925	402	419	375	412	4,826	–5.5
Unbl. Kraft Paper – Shipments	2,800	2,681	216	216	190	211	2,469	–12.3
Other Paper – Production	2,247	2,243	186	203	185	201	2,357	2.8
TOTAL PAPER PRODUCTION – UNADJUSTED	38,363	38,189	3,077	3,378	3,116	3,375	39,477	2.4
TOTAL PAPER PRODUCTION – SEAS ADJ			3,090	3,291	3,295	3,226	39,249	2.4
PAPERBOARD – PRODUCTION								
Containerboard	26,225	26,428	2,162	2,284	2,052	2,301	26,550	0.5
Cont'bd For Dom Use for Fibre Boxes	23,563	23,752	1,908	2,027	1,819	2,038	23,535	–0.1
Total Linerboard	16,177	16,399	1,291	1,389	1,248	1,408	16,178	0.1
Unbleached Kraft	15,601	15,833	1,252	1,352	1,224	1,365	15,761	1.1
Solid Bleached	170	178	10	13	8	14	141	–17.9
Recycled	407	388	28	25	16	28	276	–31.3
Corrugating Medium	7,351	7,339	617	637	570	629	7,344	–0.3
Semichemical	5,528	5,554	468	478	419	472	5,472	–2.2
Recycled	1,823	1,785	149	159	152	157	1,872	5.5
Container Chip and Filler	35	14	1	1	1	1	12	–34.0
Other Containerboard for Dom Use	320	307	27	23	18	26	270	–13.3
Containerboard for Export	2,342	2,369	227	234	215	237	2,745	7.8
Boxboard	11,878	12,029	911	1,029	946	1,051	12,102	0.3
Boxboard for Packaging for Dom Use	7,014	7,076	536	611	559	622	7,166	0.8
Folding Boxboard	5,293	5,370	399	463	422	473	5,432	0.4
Solid Bleached	2,017	1,960	153	163	152	165	1,916	–3.6
Unbleached Kraft	924	987	65	86	83	92	1,044	8.1
Recycled	2,353	2,403	180	214	187	217	2,472	0.7
Set–up Boxboard for Dom Use	279	288	20	27	26	27	322	6.5
Milk Carton & Food Service Dom Use	1,442	1,419	118	120	111	122	1,413	1.0
Other Boxboard for Domestic Use	4,075	4,089	299	345	313	349	4,028	–2.8
Boxboard for Export	789	863	76	73	74	80	907	11.7
Paperboard Production by Furnish	38,103	38,456	3,073	3,313	2,998	3,352	38,651	0.5
Unbleached Kraft	19,140	19,490	1,569	1,687	1,536	1,714	19,747	2.0
Semichemical	5,664	5,691	480	490	430	485	5,619	–2.7
Solid Bleached Kraft	4,511	4,521	372	384	356	388	4,510	1.2
Recycled	8,788	8,754	652	752	677	765	8,775	–1.3
Paperboard Production for Export	3,132	3,227	300	306	289	318	3,652	9.0
Unbleached Kraft	2,296	2,373	224	226	211	231	2,673	7.2
Semichemical	136	137	12	12	12	13	148	–16.6
Bleached Kraft	628	683	60	64	64	69	787	22.1
Recycled	72	34	3	4	2	4	44	24.8
TOTAL PAPERBOARD PRODUCTION – UNADJ	38,103	38,456	3,073	3,313	2,998	3,352	38,651	0.5
TOTAL PAPERBOARD PROD – SEAS ADJ			3,139	3,206	3,185	3,220	38,440	0.3
PAPER AND PAPERBOARD – UNADJ	76,466	76,646	6,150	6,691	6,114	6,727	78,128	1.4
PAPER AND PAPERBOARD – SEAS ADJ			6,229	6,497	6,479	6,446	77,689	1.3

R – Revised P – Preliminary Seas. Adj. – Seasonally Adjusted Unadj – Not Seasonally Adjusted

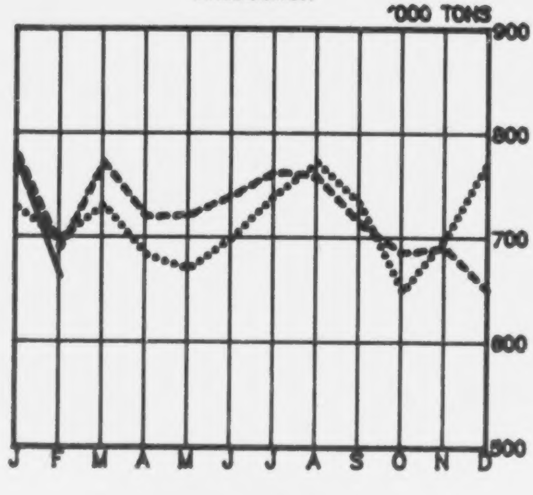
TOTAL PAPER AND PAPERBOARD

PRODUCTION



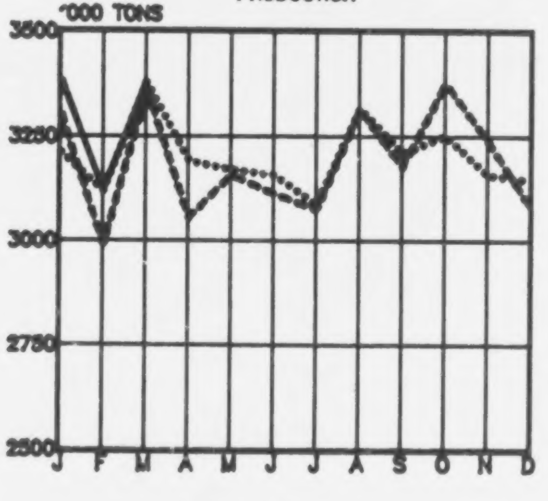
MARKET WOOD PULP

PRODUCTION



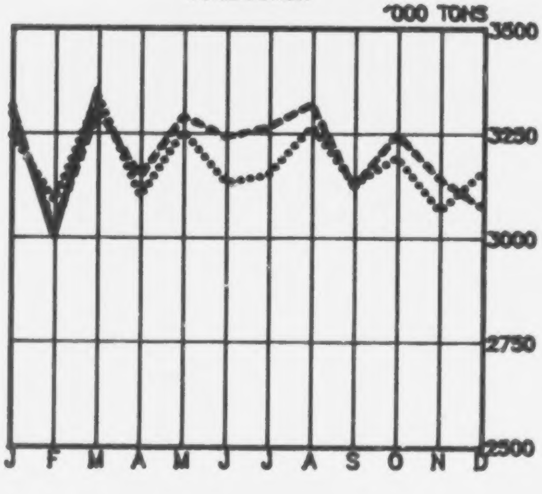
TOTAL PAPER

PRODUCTION



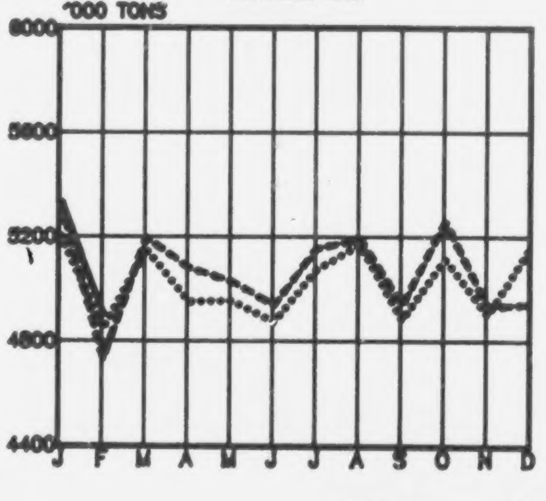
TOTAL PAPERBOARD

PRODUCTION



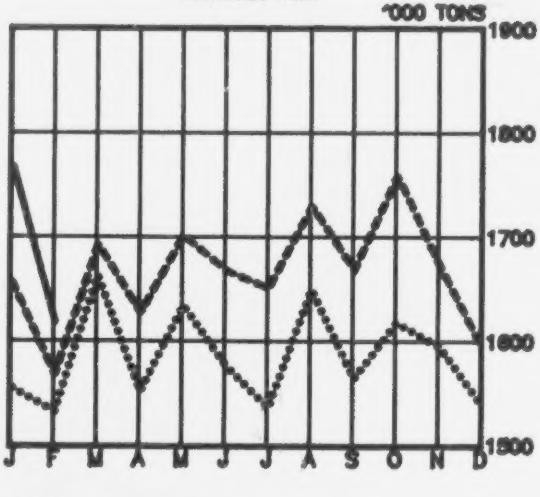
TOTAL WOOD PULP

CONSUMPTION



TOTAL WASTE PAPER

CONSUMPTION



1988 ········· 1989 — — — — 1990 ———

WOOD PULP STATISTICS (Thousands of Tons)			YEAR		NOV	DEC	JAN R	FEB P	Annual Rate Y-T-D	% Change From Same Period Last Year
			1988	1989	1989	1989	1990	1990	1990	
TOTAL WOOD PULP										
Total Wood Pulp	Production		61,161	61,998	5,021	4,991	5,480	4,989	62,811	1.9
	Imports	A	5,038	5,005	388	398	413	425	5,025	1.3
	Exports		5,528	6,231	347	585	420	410	4,981	-13.9
	New Supply		60,671	60,772	5,062	4,805	5,473	5,003	62,854	3.4
Dissolving Pulp	Production		1,367	1,425	133	117	125	92	1,299	-5.5
	Imports		248	284	11	21	17	20	224	-8.6
	Exports		865	836	53	90	58	52	660	-11.0
	New Supply		751	873	90	48	85	59	863	-1.7
Paper Grades	Production		49,493	50,181	4,032	3,995	4,418	4,048	50,798	1.4
Chemical Pulp	Imports	A	4,419	4,370	338	343	372	368	4,440	0.0
	Exports		4,612	5,325	290	490	357	355	4,268	-13.9
	New Supply		49,300	49,226	4,079	3,848	4,434	4,061	50,970	2.8
Groundwood and	Production		5,943	6,029	505	523	548	509	6,341	10.5
Thermo-Mech	Imports	A	371	351	39	34	23	37	360	31.1
	Exports		51	70	3	5	6	3	53	-39.4
	New Supply		6,263	6,309	541	552	566	543	6,649	12.2
Semi-Chemical	Production		4,358	4,363	351	357	389	340	4,372	-0.9
	Imports									
	Exports									
	New Supply		4,358	4,363	351	357	389	340	4,372	-0.9
MARKET WOOD PULP										
Total Market	Production		8,565	8,664	689	648	770	660	8,579	-2.3
Wood Pulp	Imports		3,471	3,340	251	282	266	260	3,157	-1.4
	Exports		5,071	5,310	318	501	311	422	4,396	-9.3
	New Supply		6,966	6,694	623	429	725	499	7,341	2.8
Dissolving Pulp	Production		1,365	1,422	132	117	125	91	1,298	-5.4
	Imports		206	210	8	17	7	17	143	-1.2
	Exports		798	821	48	93	64	53	699	-2.4
	New Supply		774	810	92	41	68	55	742	-7.3
Paper Grades	Production		7,200	7,242	557	531	645	569	7,281	-1.8
Chemical Pulp	Imports		3,126	3,072	233	261	257	242	2,992	-0.8
	Exports		4,273	4,489	269	409	247	369	3,697	-10.5
	New Supply		6,052	5,825	520	384	654	442	6,576	4.4
Groundwood Pulp	Production		0	0	0	0	0	0	0	0.0
and All Other	Imports		139	58	10	3	2	2	22	-45.9
	Exports		0	0	0	0	0	0	0	0.0
	New Supply		139	58	10	3	2	2	22	-45.9

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports – Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports – Department of Commerce.

NOTE: A – API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

FIBROUS RAW MATERIALS (Thousands of tons)	YEAR		NOV	DEC	JAN R	FEB P	Annual Rate	% Change From Same Period Last Year
	1988	1989	1989	1989	1990	1990	1990	
CONSUMPTION AT PAPER & PAPERBOARD MILLS								
Total	79,315	80,722	6,607	6,540	7,097	6,519	81,695	2.6
Total Wood Pulp	60,294	60,725	4,933	4,945	5,330	4,900	61,382	1.8
Waste Paper	19,021	19,997	1,674	1,595	1,767	1,618	20,313	5.0
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	172	178	188	193	192	215	215	20.6
Producers' Market Inventories	261	354	446	342	518	529	529	49.5
Consumers' Purchased Inventories #	622	608	529	519	539	542	542	-10.9
Waste Paper at Paper & Bd. Mills	1,044	1,033	1,111	1,095	1,114	1,065	1,065	3.1
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	14	18	25	19	30	29	29	61.1

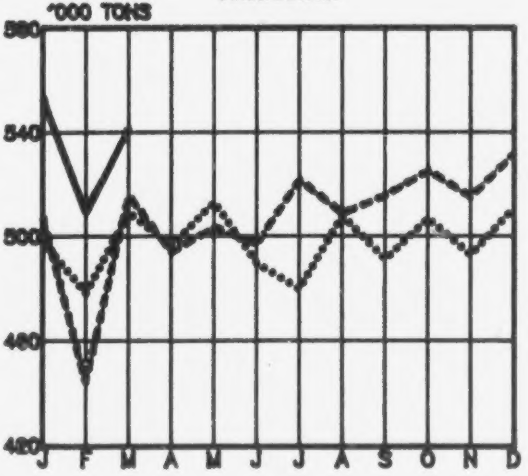
SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.

Includes all grades of wood pulp

P – Preliminary; R – Revised; (0) – Indicates zero to five-hundred short tons

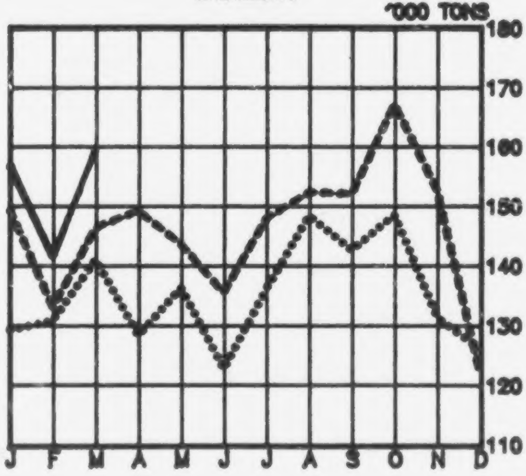
NEWSPRINT

PRODUCTION



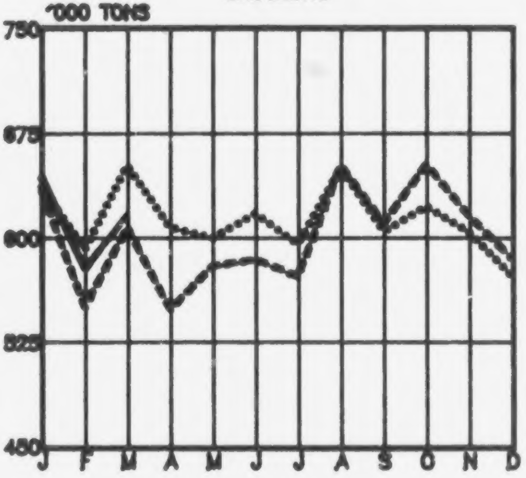
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



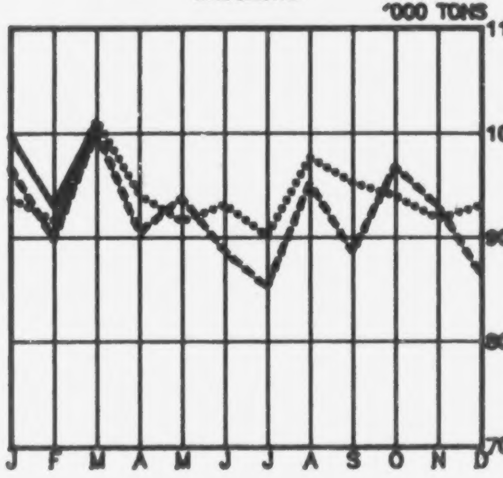
COATED PAPER

SHIPMENTS



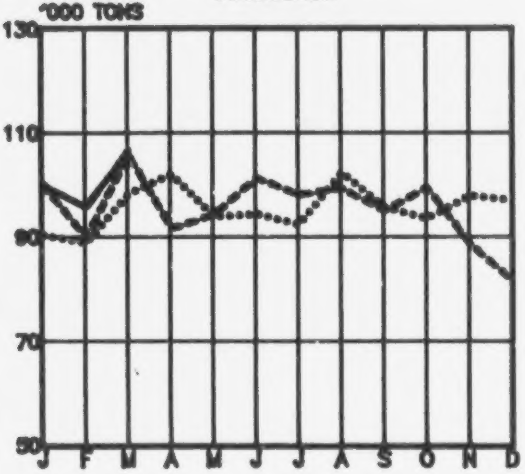
UNCOATED FREE SHEET PAPERS

SHIPMENTS



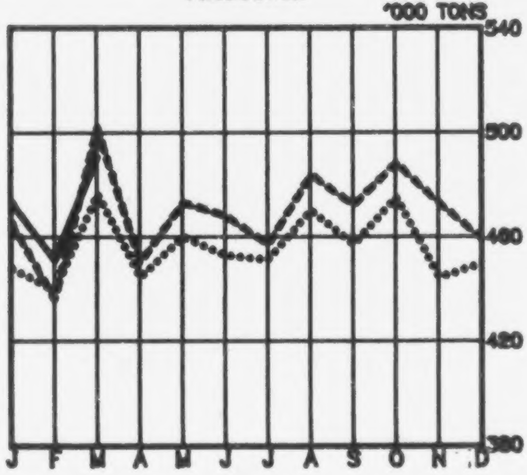
BLEACHED BRISTOLS

PRODUCTION



TISSUE PAPER

PRODUCTION



1988 ········ 1989 – – – – 1990 ———

FIBROUS RAW MATERIALS (Thousands of Standard (128 Cu. ft.) Cord	YEAR 1988	YEAR 1989	NOVEMBER 1989	DECEMBER 1989	JANUARY 1990	FEBRUARY 1990	ANNUAL RATE Y-T-D 1990	% CHANGE FROM SAME PD LAST YEAR
PULPWOOD								
Total U.S. – Total Receipts	95,537	99,279	8,202	7,844	8,741	8,215	101,736	4.7
– Total Consumpt	95,497	96,414	8,070	7,936	8,553	8,108	99,966	2.9
– Residues *	33,186	34,539	2,806	2,808	3,100	2,854	35,724	5.6
– Inventories	4,888	5,462	5,581	5,462	5,571	5,597	5,597	19.1
So. Atlantic – Total Receipts	31,582	31,962	2,609	2,474	2,885	2,691	33,456	5.1
– Total Consumpt	31,567	32,239	2,529	2,585	2,783	2,636	32,514	0.6
– Residues *	9,897	9,961	793	833	1,015	877	11,352	9.1
– Inventories	1,200	936	1,037	936	1,000	1,017	1,017	-8.8
Northeast – Total Receipts	7,187	7,242	558	596	692	649	8,046	-1.0
– Total Consumpt	7,216	7,072	563	538	639	591	7,380	1.7
– Residues *	1,664	1,575	118	108	127	125	1,512	-16.3
– Inventories	572	522	475	522	553	599	599	-12.6
South Central – Total Receipts	33,751	35,840	3,097	2,788	3,057	2,966	36,138	9.0
– Total Consumpt	33,646	35,791	3,068	2,891	3,064	3,019	36,498	7.4
– Residues *	9,890	10,539	946	844	924	919	11,058	14.0
– Inventories	1,160	1,336	1,434	1,336	1,304	1,172	1,172	23.0
North Central – Total Receipts	6,865	7,020	568	581	688	660	8,088	2.0
– Total Consumpt	6,929	6,963	602	561	631	571	7,212	3.4
– Residues *	1,334	1,422	136	126	112	104	1,296	-7.3
– Inventories	839	938	909	938	999	1,081	1,081	10.4
West – Total Receipts	16,152	17,195	1,370	1,405	1,419	1,249	16,008	-0.5
– Total Consumpt	16,139	16,349	1,308	1,361	1,436	1,291	16,362	-1.7
– Residues *	10,401	11,042	811	897	922	829	10,506	-0.3
– Inventories	1,117	1,730	1,726	1,730	1,715	1,728	1,728	78.3

* – Consumption of Residues in cords equivalent

SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA		IMPORTS FROM CANADA * YEAR 1989 Tons	YEAR 1989 ($000)	JANUARY 1990 Tons	JANUARY 1990 ($000)	FEBRUARY 1990 Tons	FEBRUARY 1990 ($000)	ANNUAL RATE Y-T-D 1990 Tons	% CHANGE FROM SAME PD LAST YEAR
Pulpwood, Roundwood (in cords of 128 cubic feet)		211,061	4,582	22,552	355	0	0	0	-100.0
Pulpwood chips		792,186	27,339	49,961	1,646	61,739	2,051	670,196	-35.9
Wood Pulp, Total	A	4,353,343	2,599,247	381,417	232,367	378,635	230,341	4,560,309	0.6
Waste Fibrous Materials, Total		164,217	31,659	13,244	2,899	11,450	2,760	148,164	-28.2
Paper, Board & Products, Total	A	10,986,831	6,104,181	932,936	513,784	917,689	500,472	11,103,750	5.1
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	A	10,807,659	5,782,419	921,657	486,777	906,501	473,543	10,968,944	6.3
Paper, Paperboard & Products	A	10,830,545	6,065,465	923,901	511,336	908,541	498,086	10,994,651	6.7
Paper & Paperboard, Only	A	10,651,373	5,743,703	912,622	484,329	897,353	471,157	10,859,846	7.9
Paper, Total	A	10,234,256	5,579,018	880,145	472,203	859,852	456,896	10,439,961	7.9
Newsprint	A	8,330,874	4,278,705	694,964	347,224	688,371	342,387	8,299,949	5.7
Printing, Writing & Rel. Pap.	A	1,579,898	1,069,263	151,737	99,978	144,501	94,516	1,777,431	20.6
Pack. & Ind. Conv. Paper		217,159	119,140	20,505	11,538	15,567	9,045	216,370	-10.5
Special Industrial Paper		49,045	60,344	7,048	7,503	5,728	5,688	76,651	83.9
Tissue Paper		57,481	51,567	5,901	5,960	5,695	5,261	69,580	11.3
Paperboard, Total		417,117	164,685	32,477	12,126	37,500	14,261	419,865	8.3
Convtd Paper&Paperbd Products		179,172	321,762	11,279	27,007	11,189	26,929	134,806	-43.4
Wet Machine Board		293	245	93	74	34	24	762	449.8
Construction Paper & Board		155,993	38,472	8,942	2,374	9,114	2,362	108,337	-58.2

NOTE: A – API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

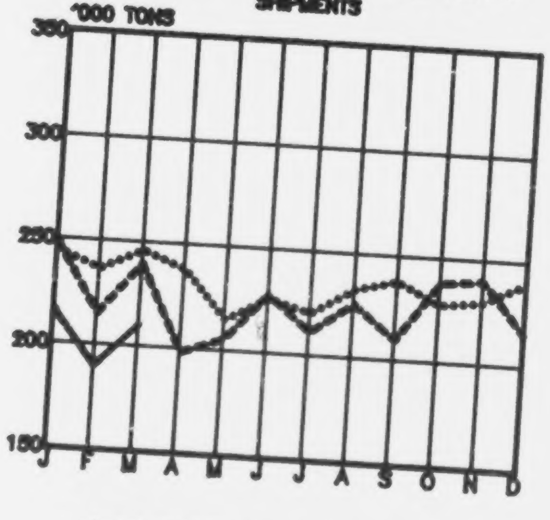
EXPORTS TO CANADA *								
Pulpwood, Roundwood (in cords of 128 cubic feet)	62,892	1,120	29,481	3,911	36,301	3,830	394,692	263028.0
Pulpwood chips	28,218	1,241	10,804	592	9,975	534	124,670	831.8
Wood Pulp, Total	352,896	141,272	36,793	16,367	29,806	14,432	399,593	79.3
Cotton Pulp & Other Pulp	6,215	4,249	341	301	151	180	2,950	-63.8
Waste Paper	284,379	38,555	51,418	8,969	44,012	8,359	572,577	112.5
Paper, Board & Products, Total	1,083,228	763,613	100,268	107,485	87,883	96,708	1,128,905	56.2
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	754,575	497,470	77,526	66,552	66,887	63,273	866,479	83.2
Paper, Paperboard & Products	1,062,560	756,810	100,202	107,430	87,761	96,625	1,127,773	59.0
Paper & Paperboard, Only	733,907	489,668	77,460	68,497	66,765	63,190	865,347	88.3
Paper, Total	371,206	340,312	44,959	50,760	41,451	47,933	518,458	105.8
Newsprint	8,316	5,891	2,475	1,055	907	506	20,291	273.7
Printing, Writing & Rel. Pap.	228,021	222,055	30,452	34,640	31,094	34,727	369,275	144.0
Pack. & Ind. Conv. Paper	65,390	29,624	4,705	3,252	4,053	2,887	52,546	80.4
Special Industrial Paper	62,645	72,955	6,152	10,508	4,560	8,928	64,272	4.2
Tissue Paper	6,834	9,787	1,175	1,306	837	886	12,073	174.4
Paperboard, Total	362,701	149,356	32,501	17,737	25,314	15,258	346,889	67.1
Convtd Paper&Paperbd Products	328,653	266,143	22,742	38,933	20,996	35,435	262,426	5.0
Wet Machine Board	1,628	880	0	0	0	0	0	-100.0
Construction Paper & Board	19,040	7,143	66	56	122	83	1,132	-90.8

SOURCE: Bureau of Census, Department of Commerce .

E – Estimate of tonnage based on square foot data

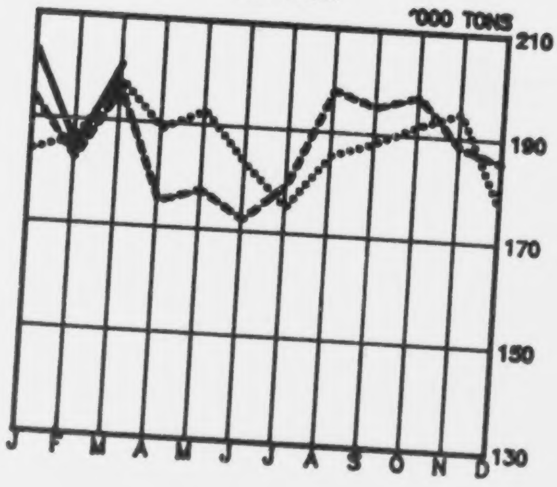
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



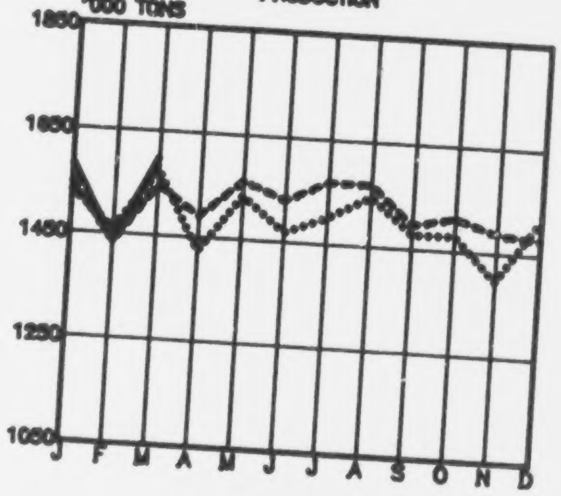
OTHER PAPER

PRODUCTION



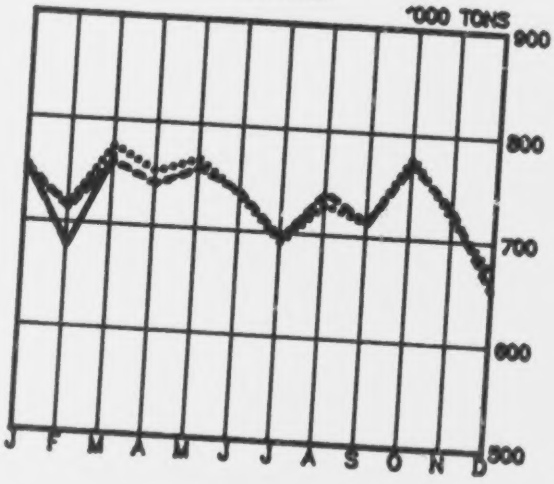
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



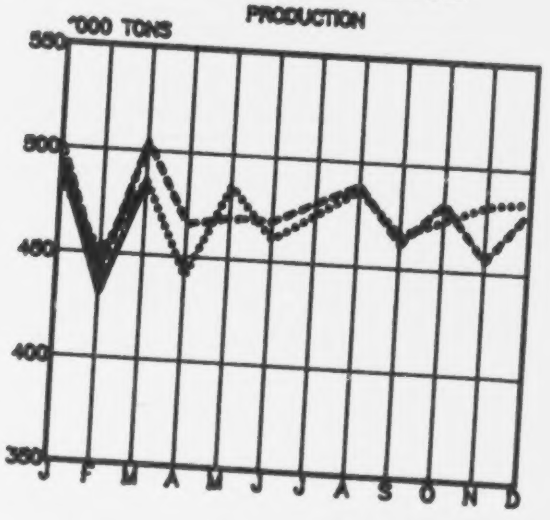
RECYCLED PAPERBOARD

PRODUCTION



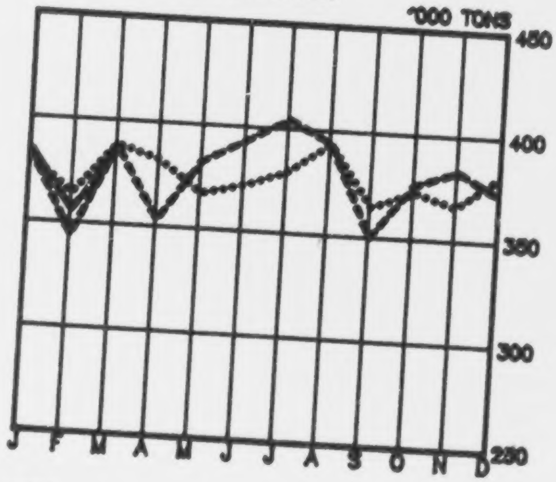
SEMICHEMICAL PAPERBOARD

PRODUCTION



SOLID BLEACHED PAPERBOARD

PRODUCTION



1988 ········ 1989 - - - - - 1990 ————

PULP, PAPER AND PAPERBOARD IMPORTS		YEAR 1989		JANUARY 1990		FEBRUARY 1990		Annual Rate YTD 1990	% Change from same Period Last Year
		Tons	$000	Tons	$000	Tons	$000	Tons (1)	
Pulpwood Roundwood (cords)		211,061	4,582	0	0	0	0	0	-100.0
Pulpwood Chips		805,361	27,759	49,968	1,653	61,810	2,073	670,792	-36.5
Total All Imports	A	18,288,880	11,352,263	1,549,588	979,442	1,479,426	913,470	18,174,088	1.4
Wood Pulp Total	A	5,005,100	2,980,642	412,713	251,205	424,736	259,524	5,024,697	1.3
Waste Paper		172,575	33,197	12,317	2,316	9,861	1,828	133,070	-40.5
Other Fibrous Materials		11,254	8,518	1,285	830	1,804	1,153	18,538	81.8
Paper Board & Products Total	A	13,101,072	8,329,906	1,123,272	725,090	1,043,025	650,965	12,967,782	2.2
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	A	12,537,474	7,231,648	1,089,571	634,813	1,010,787	570,647	12,602,148	4.5
Paper Ppbd & Prds ex Cnst&WMB	A	12,910,205	8,279,503	1,113,139	722,120	1,032,932	647,944	12,876,427	3.6
Paper & Paperboard Only	A	12,347,748	7,181,244	1,079,438	631,843	1,000,694	567,627	12,480,791	6.1
Paper Total	A	11,814,263	5,900,798	1,037,868	602,452	955,514	545,976	11,960,291	6.2
Newsprint	A	8,553,401	4,379,613	721,716	359,069	693,806	345,118	8,493,138	5.7
Printing & Writing	A	2,732,978	1,996,141	264,433	188,324	220,263	156,099	2,908,177	9.2
Uncoated Groundwood		1,304,114	817,785	113,258	70,508	87,038	51,977	1,201,775	-4.6
Coated Print.& Impreg. Pap.	A	774,022	653,484	79,544	64,571	71,110	57,130	903,921	33.7
Uncoated Free Sheet	A	583,077	462,404	65,766	46,308	56,585	40,394	734,105	13.5
Thin (except Cigarette)		12,711	15,200	1,052	1,280	616	739	10,010	-37.0
Bristols		59,052	68,267	4,814	5,657	4,914	5,859	58,386	-10.2
Total Pkg & Other Paper		407,087	414,353	41,901	45,282	32,052	35,929	443,719	-1.1
Unbleached Kraft Paper		239,303	116,011	22,325	10,583	15,996	7,999	229,922	-16.7
Other Pkg. & Indust. Paper		167,785	298,342	19,576	34,699	16,057	27,930	213,797	23.8
Tissue		120,797	110,691	9,819	9,778	9,391	8,830	115,257	-3.2
Paperboard, Total		533,485	280,148	41,569	29,390	45,181	21,651	520,490	3.8
Test or Containerboard		85,048	34,401	8,251	3,446	9,605	4,140	107,137	44.2
Semi-Chemical Corrugating		118,176	36,462	8,803	2,590	8,053	2,242	101,132	-13.9
Other Paperboard		330,262	209,584	24,515	23,354	27,523	15,269	312,231	0.9
Convtd Paper&Paperbd Products		562,457	1,098,259	33,701	90,277	32,238	80,318	395,636	-40.1
Paper Products, Total		470,471	924,729	26,510	76,851	24,207	66,531	304,305	-47.4
Paperboard Products, Total		91,986	173,529	7,191	13,426	8,031	13,787	91,331	10.7
Wet machine Board		606	580	109	89	62	54	1,027	306.5
Construction Paper & Board E		189,119	49,824	10,025	2,882	10,030	2,966	120,328	-59.6
Notes									
Other: No Weight Avail. ($000)			136,624		7,797		8,576	98,236	0.8
Total Imports Incl. Other($000)			11,488,886		987,239		922,045	11,455,703	4.3

NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

PULP, PAPER AND PAPERBOARD EXPORTS	YEAR 1989		JANUARY 1990		FEBRUARY 1990		Annual Rate YTD 1990	% Change from same Period Last Year
	Tons	$000	Tons	$000	Tons	$000	Tons (1)	
Pulpwood, Roundwood (cords)	137,617	3,475	38,551	4,149	38,074	3,952	459,750	489.3
Pulpwood Chips	4,357,811	388,154	315,702	30,409	365,081	34,284	4,088,176	13.5
Total All Exports	18,633,674	8,604,233	1,534,689	741,951	1,379,368	671,868	17,484,341	0.2
Wood Pulp,Total	6,231,172	3,512,604	420,045	251,621	410,181	242,753	4,981,357	-13.9
Cotton Pulp and Other Pulp	122,045	100,510	7,174	7,088	11,675	9,506	113,090	22.6
Waste and Old Paper	5,980,620	729,797	525,675	67,099	457,375	55,904	5,898,300	2.3
Paper, Board & Products,Total	6,299,837	4,261,322	581,798	416,142	500,137	363,506	6,491,594	11.7
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	5,259,802	2,982,974	493,902	292,459	417,298	249,338	5,467,188	12.5
Paper, Ppbd & Prod ex Cnst&WMB	6,263,560	4,246,565	581,234	415,834	499,456	363,150	6,484,139	12.3
Paper & Paperboard, Only	5,223,525	2,968,216	493,340	292,152	416,615	248,982	5,459,732	13.2
Paper, Total	1,465,821	1,233,814	131,303	121,270	115,602	106,798	1,481,429	13.9
Newsprint	624,798	357,381	49,913	25,816	39,580	20,870	536,962	-14.9
Printing & Writing	478,270	465,456	55,958	58,949	53,333	55,968	655,742	89.5
Uncoated Groundwood	88,056	64,766	6,299	5,100	4,006	3,827	61,826	-10.5
Clay Coated Paper	168,538	131,418	16,939	17,863	15,843	15,858	196,690	104.9
Uncoated Free Sheet	122,346	166,830	20,237	24,995	18,304	22,578	231,244	147.6
Other Printing & Writing	99,329	102,442	12,483	10,991	15,181	13,725	165,982	89.6
Total Pkg. & Other Paper	342,041	380,790	22,429	32,786	20,288	29,510	256,298	-16.5
Unbleached Kraft	125,818	60,316	8,045	4,901	8,315	4,383	98,158	-12.5
Other Pkg. & Indust. Paper	216,223	320,472	14,384	27,885	11,973	25,127	158,140	-18.7
Tissue	20,712	30,187	3,004	3,720	2,401	2,429	32,428	90.0
Paperboard, Total	3,757,704	1,734,402	362,037	170,882	301,013	140,186	3,978,302	13.0
Solid Wood Pulp	3,572,758	1,646,152	343,326	160,540	283,386	131,436	3,760,272	11.6
Total Linerboard	2,499,716	935,364	252,368	93,550	208,968	77,351	2,768,011	11.5
Bleached Kraft Linerboard	283,113	127,787	32,855	14,268	22,804	10,610	333,952	-4.8
Unbleached Kraft Linerbd	2,216,603	807,578	219,513	79,282	186,164	66,741	2,434,080	14.1
Other Unbleached Kraft	246,575	113,315	23,937	13,064	20,800	10,290	268,423	24.3
Other Bleached Kraft	795,305	582,979	64,368	52,849	51,147	42,701	693,080	8.7
Semi-Chemical Corrugating	31,162	14,494	2,656	1,077	2,471	1,094	30,758	-6.2
Recycled Paperboard	184,947	88,250	18,711	10,342	17,627	8,750	218,030	42.5
Convtd Paper&Paperbd Products	1,040,036	1,278,349	87,894	123,882	82,841	114,169	1,024,408	7.6
Paper Products, Total	473,435	832,806	33,487	77,817	32,065	72,644	393,309	-0.6
Paperboard Products, Total	566,601	445,543	54,407	45,865	50,776	41,524	631,099	18.8
Wet Machine Board	2,889	1,256	47	17	131	54	1,065	-65.1
Construction Paper & Board E	33,388	13,501	615	290	550	301	6,389	-81.0
Notes								
Other: No Weight Avail. ($000)		23,665		3,444		2,652	36,575	135.5
Total Exports Incl. Other($000)		8,627,898		745,394		674,321	8,518,289	11.8

SOURCE: Bureau of Census, U.S. Department of Commerce. E – Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES 1982 = 100	YEAR		DEC	JAN	FEB	MAR	Annual Rate Y-T-D	% Change from same Period Last Year
	1988	1989	1989	1990	1990	1990	1990	
Pulp, Paper and Products except Building Grades	124.8	132.4	133.5	133.4	133.3	133.2	133.3	1.9
Pulp Paper & Products, ex. Building Grades & ex. Waste Paper *	123.8	132.0	133.2	133.1	133.0	132.9	133.0	2.1
Total Wood Pulp	136.7	157.4	159.9	159.8	160.3	158.0	159.4	4.6
Total Paper	123.2	129.6	128.2	128.0	127.5	127.4	127.6	-1.7
Total Paper, exc. Newsprint	123.4	130.5	128.7	128.4	127.9	127.7	128.0	-2.1
Newsprint	127.6	122.4	117.8	117.9	115.1	115.3	116.1	-8.1
Total Paperboard	133.2	140.1	139.6	138.8	138.4	138.5	138.6	-0.3
Total Paper and Paperboard *	126.4	132.9	131.8	131.4	130.9	130.9	131.1	-1.2
Converted Products	123.0	131.7	134.5	134.5	134.6	134.6	134.6	4.2
Waste Paper	183.6	157.1	151.4	151.4	149.7	149.3	150.1	-5.1
All Commodities	106.9	112.2	113.0	114.9	114.4	114.2	114.5	3.2
Industrial Commodities	106.3	111.6	112.3	114.2	113.6	113.2	113.7	3.3

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

Paper and Allied Products Companies

Sales and Earnings

	Sales			Net Profit After Taxes			Net Profits/Sales	
	1990	1989	90/89	1990	1989	90/89	1990	1989
	(Thousand Dollars)		%	(Thousand Dollars)		%	%	%
			26	Paper and Allied Products Companies				
First Quarter	17,679,733	16,426,803	7.6	1,030,662	1,307,931	-21.2	5.83	7.96
Second Quarter		17,493,246			1,306,782			7.47
Third Quarter		17,223,709			1,341,552			7.79
Fourth Quarter		17,436,072			1,179,712			6.77
Year-to-date	17,679,733	16,426,803	7.6	1,030,662	1,307,931	-21.2	5.83	7.96
Full Year		68,579,830			5,135,977			7.49
			3	Forest Product Companies				
First Quarter	5,416,303	5,235,292	3.5	266,858	341,987	-22.0	4.93	6.53
Second Quarter		5,810,058			375,263			6.46
Third Quarter		5,730,507			396,336			6.92
Fourth Quarter		5,510,253			81,085 *			1.47
Year-to-date	5,416,303	5,235,292	3.5	266,858	341,987	-22.0	4.93	6.53
Full Year		22,286,110			1,194,671			5.36

* Includes net nonrecurring charge at one major company.

SALES AND EARNINGS

First quarter 1990 sales reported by 26 paper and allied products companies amounted to $17.7 billion, 7.6% above those in the first quarter of 1989. Net profits after taxes of just over one billion dollars were off 21.2% from the comparable 1989 period. At 5.8%, the first quarter ratio of net profits to sales slid from the its year-ago rate of 8%, still remaining in the upper portion of its long-term trend.

For 1989 as a whole, profits of these 26 companies averaged 7.5% of sales. The comparable figure reported by the Bureau of Census for all paper and allied products companies was 6.2%.

Data for the three major forest and wood products concerns with significant paper and board capacity displayed the same inherent patterns.

These data, along with quarterly and full year totals for 1989, are shown on page 10 of this report.

U.S. WASTE PAPER EXPORT DEVELOPMENTS

U.S. waste paper exports advanced 6% in 1989 to 5.7 million metric tons, according to a recent report prepared by API's International Department. Although last year's export gain trailed the double digit advances of the 1986-88 period -- perhaps because of slower growth in world paper and paperboard production -- it nevertheless added 0.4 percentage points to the U.S. recovery rate for waste paper. The combination of increased domestic demand and higher exports lifted U.S. waste paper recovery from 29.9% of new supply of paper and paperboard in 1988 to 32.4% last year.

Because 1989 was the first time that U.S. imports and exports were tabulated in accordance with the Harmonized System, data pertaining to specific grades of waste paper exports may not be fully comparable with previous years. Another important change in data concerns exports to Canada. Because Census Bureau data tend to understate U.S. waste paper exports to Canada, API measured 1989 waste paper exports to Canada based on import data reported by the Canadian Pulp and Paper Association. Historical data have been revised to reflect this shift. Beginning in 1990, the U.S. Department of Commerce will report all U.S. exports to Canada based on Canadian import data as reported by Statistics Canada.

The strongest 1989 gain in U.S. waste paper exports -- 19.8% to 1.16 million metric tons -- was registered by old newspapers, a category that also includes other paper made mainly of mechanical pulp. Over two-thirds of last year's increase in demand for old newspapers originated in the Far East, principally Korea and Taiwan. U.S. exports of old newspapers to Italy, Spain, and the

Netherlands also posted substantial gains.

Exports of old corrugated containers, a category that also includes unbleached paper and paperboard, rose 17.6% last year to over 2.6 million metric tons. Over half of last year's tonnage gain went to Mexico, possibly reflecting the start-up of a new linerboard machine. Mexico thus became the largest importer of OCC from the U.S. in 1989. OCC exports to the Far East also rose briskly last year.

Exports of mixed papers grew 3.8% last year, but exports of high-grade deinking papers and pulp substitutes plunged 20.6%. To some extent, the sharp drop-off may have reflected grade reclassification that took place in connection with shifting to the Harmonized System. Strong domestic demand for the high grades may have also resulted in smaller volumes available for exports. The sharpest drop in exports of high-grade waste papers was to Mexico, but U.S. shipments to the Far East were also off by more than 10%.

The table below identifies the seven largest importers of U.S. waste paper and compares their 1989 tonnage with that of 1988. These importing countries accounted for 87.7% of U.S. waste paper exports in 1987, 84.7% in 1988 and 80.6% last year. The declining importance of the seven largest importing nations suggests that the world market for U.S. waste paper has been broadening.

Copies of "U.S. Exports of Waste Paper in 1989" have been mailed to API member companies. The report is available to others for $75 (domestic) and $80 (foreign) from the API International Department.

SEVEN LARGEST IMPORTING COUNTRIES OF U.S. WASTE PAPER (Metric Tons)

Country	1989 Tons	1988 Tons	% Change 1989/1988
S. Korea	1,116,507	1,111,941	0.4%
Taiwan	1,060,270	899,480	17.9%
Mexico	975,088	1,027,949	-5.1%
Canada	554,113	584,670	-5.2%
Japan	481,217	551,380	-12.7%
Spain	220,958	153,888	43.6%
Italy	201,457	244,345	-17.6%
Total of Seven Countries	4,609,610	4,573,653	0.8%
Seven Countries As Percent Of Total	80.6%	84.7%	

INDUSTRY FACT SHEET:
To be filmed last

Do not use a separate date.

INDUSTRY FACT SHEET
MONTHLY STATISTICAL SUMMARY INSERT
VOL. 68, NO. 4
APRIL, 1990

	PRODUCTION (000 TONS)					
	(P) MAR 1990	(R) FEB 1990	MAR 1989	FIRST 3 MONTHS 1990	1989	% CHANGE YR TO DATE 1990/1989
PAPER GRADES						
Newsprint	543	510	516	1,606	1,469	9.3
Printing & Writing	1,929	1,779	1,901	5,640	5,487	2.8
Uncoated Groundwood (s)	160	142	147	458	429	6.7
Coated Paper (s)	616	578	608	1,837	1,792	2.5
Uncoated Free Sheet Paper (s)	1,008	930	1,002	2,934	2,865	2.4
Thin Paper (s)	23	21	23	66	63	5.8
Cotton Fiber Paper (s)	15	14	15	42	42	-0.7
Bleached Bristols (s)	107	96	106	303	296	2.3
Tissue Paper	492	452	503	1,417	1,405	0.9
Total Pkg & Other Paper	412	375	436	1,206	1,277	-5.5
Unbl. Kraft Paper (s)	211	190	240	617	704	-12.3
Other Paper	201	185	196	589	573	2.8
TOTAL PAPER	3,375	3,116	3,356	9,869	9,638	2.4
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,714	1,536	1,653	4,937	4,839	2.0
Unbleached Kraft Linerboard	1,596	1,435	1,546	4,609	4,522	1.9
Other Unbl. Kraft Paperboard	118	101	107	328	317	3.6
Semichemical Paperboard	485	430	504	1,405	1,443	-2.7
Bleached Paperboard	388	356	387	1,127	1,114	1.2
Recycled Paperboard	765	677	760	2,194	2,223	-1.3
TOTAL PAPERBOARD	3,352	2,998	3,304	9,663	9,619	0.5
TOTAL PAPER AND PAPERBOARD	6,727	6,114	6,660	19,532	19,257	1.4

WOOD PULP (ALL GRADES)	FEB 1990	JAN 1990	FEB 1989	FIRST 2 MONTHS 1990	1989	% CHANGE YR TO DATE 1990/1989
Dissolving & Special Alpha	92	125	102	217	229	-5.5
Bleached Sulfite) Unbleached Sulfite)	139	125	120	264	262	0.4
Bleached & Semi-Bl. Sulfate	2,174	2,385	2,112	4,559	4,493	1.5
Unbleached Sulfate	1,735	1,908	1,696	3,644	3,596	1.3
Semichemical	340	389	343	729	736	-0.9
Groundwood & Thermomechanical	509	548	437	1,057	956	10.5
TOTAL PULP DIVISION DATA	4,989	5,480	4,811	10,469	10,273	1.9

(s) - Shipments
P - Preliminary
R - Revised

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

April 30, 1990

	1988	1989	INDUSTRY DATA 1989 – 1990	R	P	Ann. Rate Year-To-Date 1990	% From Same Period Last Year
PAPER AND PAPERBOARD — Tons (000)			Jan	Feb	Mar		
Total Production (API)........: excluding	76,466	76,646	6,691	6,114	6,728	78,128	1.4
Total Seasonally Adjusted.....construction:			6,497	6,479	6,446	77,689	1.3
Imports (including Products).: and wet ......E	12,798	12,910	1,113	1,033	1,079	12,896	0.8
Exports (including Products).: machine ......E	5,558	6,264	581	499	561	6,567	4.6
Apparent Consumption.........: grades	83,694 a	83,292 b	7,029	7,013	6,963	84,458 c	1.5
Paper Production % Tonnage Capacity	95.4 g	92.4	94.4	96.2	93.9	94.8	-
Paperboard Production % Tonnage Capacity	94.5 g	93.5	93.4	93.5	94.1	93.7	-
			Dec	Jan	Feb		
IMPORTS.....:Including Construction and :	13,110	13,101	1,016	1,123	1,043	12,998	2.2
EXPORTS.....: WMB Grades (excl. HPB) :	5,691	6,300	515	582	500	6,492	11.7
MARKET WOOD PULP PRODUCTION – Tons (000)	8,565	8,664	646	770	680	8,582	-2.3
TOTAL WOOD PULP PRODUCTION – Tons (000)	61,161	61,998	4,991	5,480	4,989	62,814	1.9
WOOD PULP IMPORTS – TONS (000)	5,038	5,005	398	413	425	5,025	1.3
WOOD PULP EXPORTS – TONS (000)	5,528	6,231	585	420	410	4,981	-13.9
RAW MATERIALS CONSUMPTION – Tons (000)							
PAPER AND BOARD MILLS : excluding			Dec	Jan	Feb		
Wood Pulp.....................consumption for:	60,294	60,725	4,945	5,330	4,900	61,381	1.8
Waste Paper.....................construction &.	19,021	19,997	1,595	1,767	1,618	20,314	5.0
TOTAL.............................WMB grades:	79,315	80,722	6,540	7,097	6,519	81,696	2.6
PULPWOOD CONSUMPTION Cords (000) Amer. Pulpwd. Assn	95,497	98,414	7,936	8,563	8,108	99,966	2.9
EMPLOYMENT (000)			Jan	Feb	Mar		
Paper and Allied Products.........Total	682.6	687.2	693.4	694.4	693.8	693.9	0.3
Pulp, Paper and Board Mills........Total......E	247.2	247.1	247.2	246.2	245.9	246.4	0.6
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			Jan	Feb	Mar		
Paper and Allied Products	11.86	11.93	12.13	12.12	12.12	12.12	2.7
Pulp, Paper Mills..... E	14.31	14.71	14.95	14.98	14.96	14.96	3.2
Paperboard Mills.......E	14.49	14.76	14.98	14.97	14.98	14.98	3.1
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1989 Q3	1989 Q4	1990 Q1		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	11.36	15.69	15.82	17.69	18.00	17.72 Y	12.9
INDEX OF OUTPUT PER MAN-HOUR (1977=100)			Jan	Feb	Mar		
:IN PULP, PAPER :...Production Workers	146.0	146.6	150.3	148.7	149.4	149.5	0.4
:AND BOARD MILLS:...All Employees	142.9	143.5	146.9	145.3	145.4	145.8	0.2
PAPER AND ALLIED PRODUCTS (Million $)			Dec	Jan	Feb		
Industry Shipments (Dept. of Commerce)*	127,718	130,501	10,561	10,679	10,767	128,670	-1.4
Pulp, Paper and Paperboard*	57,177	57,700	4,481	4,551	4,618	55,014	-6.3
Inventories (End of Period) – Total Industry*	12,085	12,571	12,571	12,725	12,699	12,699	6.3
Pulp, Paper and Paperboard*	4,325	4,980	4,980	4,998	4,979	4,979	11.3
PAPER AND ALLIED PRODUCTS COMPANIES			1989 Q2	1989 Q3	1989 Q4		
Sales (Corporations Only)	107,221	112,238	28,534	28,096	28,327	N.A.	N.A.
Earnings (Corporations Only)	8,081	7,000	2,022	1,850	1,149	N.A.	N.A.
Depreciation (Corporations Only)	4,625	4,954	1,231	1,247	1,289	N.A.	N.A.
Net Worth (Corporations Only)	42,940	45,888	45,242	46,513	45,888	N.A.	N.A.
PRICE INDEXES (Bureau of Labor Stats)1982=100			Jan	Feb	Mar		
Pulp, Paper & Products, ex. Building Grades	124.8	132.4	133.4	133.3	133.2	133.3	1.9
Wood Pulp	136.7	157.4	159.8	160.3	158.0	159.4	4.6
Waste Paper	183.6	157.1	151.4	149.7	149.3	150.1	-5.1
Paper	123.2	129.6	128.0	127.5	127.4	127.6	-1.7
Paperboard	133.2	140.1	138.8	138.4	138.5	138.6	-0.3
PAPER DEMAND (INDEXED: 1977=100)			Jan	Feb	Mar		
Total Paper Production *	136.4	137.7	142.6	142.7	139.7	141.7	2.4
Paper New Supply *	144.4	142.1	147.4	145.1	143.9	145.5	2.1
Demand Indicators – (Weighted Average) *	163.7	175.6	180.4	181.3	181.1	180.9	5.2
Production of Nondurable Goods.........*....(21.2%)	143.9	150.4	152.5	152.2	151.5	152.1	2.5
Disposable Income.........................*....(23.9%)	134.9	140.6	142.3	142.8	143.1	142.7	2.4
Total Printing and Publishing..............*....(54.9%)	183.8	200.6	207.9	209.3	209.1	208.7	6.8
				— Not Available —			
PAPERBOARD DEMAND (INDEXED: 1977=100)							
Total Paperboard Production *	131.5	132.7	132.9	132.0	133.4	132.8	0.3
Production for Domestic Use	128.8	129.7	128.3	128.1	128.4	128.3	-0.6
Demand Indicators – (Weighted Average) *	132.5	137.2	135.8	137.0	138.0	136.9	0.4
Production of Consumer Goods............*....(62.06%)	133.9	139.4	138.0	139.7	140.7	139.5	0.7
Production of Equipment.....................*....(5.75%)	158.2	164.2	163.5	164.9	166.1	164.8	1.9
Production of Materials......................*....(32.19%)	125.3	128.1	126.7	126.8	127.8	127.1	-0.4
				— Not Available —			
NEWSPRINT MARKETS			Dec	Jan	Feb		
Consumption by Publishers – Tons (000)	13,487	13,483	1,134	1,067	1,014	12,467	0.1
Newspaper Pub. and Printing Empl. Total(000)	475	478	483	481	481	481	0.8
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (PIB, Inc.)	172,580	177,846	15,184	10,400	13,850	145,496	-4.4
WHOLESALERS SALES AND INVENTORIES (Million $)							
Total Paper & Pap. Prdcts..ex Wallpaper..Sales	52,377	56,903	4,832	4,382	4,014	50,436	-3.4
Inventories (End of Period)	4,436	4,508	4,508	4,171	4,126	4,126	-9.6
FIBRE BOX DATA (Fibre Box Association)			Jan	Feb	Mar		
Fibre Box Shipments (Million square feet)	308,507	313,400	27,609	24,167	28,667	313,772	0.6
Container'bd Inventory at Mill & Plant(000Tons)	2,583	2,589	2,685	2,559	2,638	2,638	2.7
RETAIL TRADE (Billion $)			Jan	Feb	Mar		
Total Retail Sales *	1,622	1,711	149.9	149.5	148.6	1,792	6.9
Nondurable Goods Stores Sales *	995	1,082	93.7	94.7	94.3	1,131	9.0
GENERAL ECONOMIC DATA			Jan	Feb	Mar		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1977 = 100)*	137.2	141.7	141.0	141.8	142.7	141.8	0.8
PRODUCER PRICES(ALL COMMODITIES)(INDEX 1982=100)	106.9	112.2	114.9	114.4	114.2	114.5	3.2
CONSUMER PRICES (ALL ITEMS–URBAN CON.)(1982–4=100)	118.3	124.0	127.4	128.0	128.7	128.0	5.2
			Dec	Jan	Feb		
TOTAL CONSUMER CREDIT OUTSTANDING – (Billion $)	671.4	728.7	728.7	723.4	718.7	718.7	5.3
GROSS NATIONAL PRODUCT – ANNUAL RATE (Billion$)			1989 Q3	1989 Q4	1990 Q1		
G.N.P. or Expenditure – Current $	4,881	5,234	5,281	5,340	5,441	5,441	6.4
G.N.P. or Expenditure – 1982 $	4,024	4,144	4,163	4,174	4,196	4,196	2.2

Pounds Per Capita

	Pap & Papbd		Other		Total	Popul (mil)
.a –	677	+	14	=	691	247.4
.b –	667	+	13	=	680	249.9
.c –	675	+	13	=	688	250.3

f – Wood Pulp Production excludes def., exple & ecr.

h – First 3 quarters, annual rate

i – End of Sept Q – Quarter

R –Revised Y – Full year est by Dept of Commerce

E – Last month est by API

A 1500-2

Paper
Paperboard
& Wood Pulp

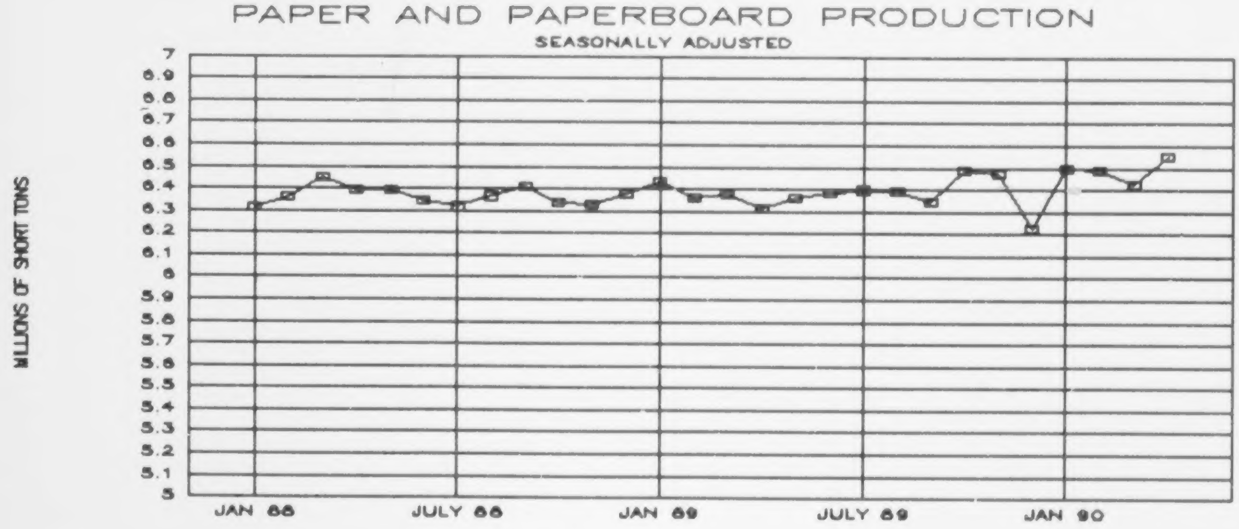
MONTHLY STATISTICAL SUMMARY - Vol.68 No.5 MAY 1990

PAPER AND PAPERBOARD CONTINUES TO INCH UPWARD

The seasonally adjusted rate of paper and paperboard production pierced the high end of its 1988-1989 range during the first four months of 1990, with the April 1990 rate about 1% ahead of January (see chart below). The four-month seasonally adjusted rate, at a record high of 77.9 million tons per year, was 1.9% above its year-earlier level. The paper production trend was somewhat stronger than paperboard's, but in both instances the April rate marked the year-to-date high.

Paper: Total paper production in April, at 3,222,000 tons, gained 5.6% from its April 1989 level, bringing the seasonally adjusted year-to-date annual rate to 39,248,000 tons, 3.1% higher than its year-ago level. Newsprint production is excelling in the face of a generally flat trend in newsprint consumption. The January-April production total was up 9.3% from its four-month 1989 figure, reflecting the output of the three new machines -- one of which uses old newspapers for its fiber -- that came onstream late last year.

The year-to-year advance in the printing-writing grades remained equal to that of paper. Coated paper shipments rose 2.7% in the face of reductions in magazine advertising linage as some publishers elected to increase inventories. Shipments of uncoated free sheet papers strengthened from their late-1989 levels, with their January-April 1990 rise nearly matching paper's 3.1%.



PAPER AND PAPERBOARD PRODUCTION

SEASONALLY ADJUSTED

Copyright © 1990 American Paper Institute 260 Madison Avenue New York, N.Y. 10016

Tissue papers are also turning in a positive performance, with their four-month 1990 annual rate at 5.68 million tons, slightly more than the high registered last year.

Paperboard: Led by a surge in production of mottled white linerboard, unbleached kraft linerboard production in January-April 1989 was 1.8% ahead of its year-ago volume. Production of mottled white unbleached kraft linerboard achieved an all-time monthly high of 113,000 tons in April, placing the total for the first one-third of this year 15% above its comparable 1989 total. Although production of unbleached kraft paperboard for export eased in April, its year-to-date total still exceeded its 1989 pace by 3.3%.

Total corrugating medium barely kept pace with its year-ago levels, with production of the semichemical grade showing a small decline, offset by a 7% rise in the recycled sector. Mill inventories of recycled corrugating medium have moved along a flat trend since the start of the year, while semichemical inventories have risen. Total inventories of corrugating materials at mills and plants as of April 30, 1990 were unchanged from their April 30, 1989 total.

Containerboard inventories at mills and box plants dropped to 5.3 weeks of supply at the end of April from the month-earlier 5.8 weeks of supply, similar to the pattern they displayed last year. The current level compares with 5.9 weeks of supply as of the end of 1989 and 5.1 one year ago.

In sum, production of containerboard for domestic use showed a 0.7% expansion from its four-month 1989 total, matching almost exactly the 0.8% rise in shipments of fiber boxes.

Demand for packaging boxboard remains steady, with the January-April 1990 total up 2% from its January-April 1989 level. The recycled and solid bleached grades were off a bit, offset by increases in kraft folding boxboard and solid bleached board exports.

The seasonally adjusted year-to-date annual rate of total paperboard production has risen steadily in each month of 1990 relative to its 1989 performance and, after a strong performance in April, was nearly a full percentage point above its comparable 1989 rate.

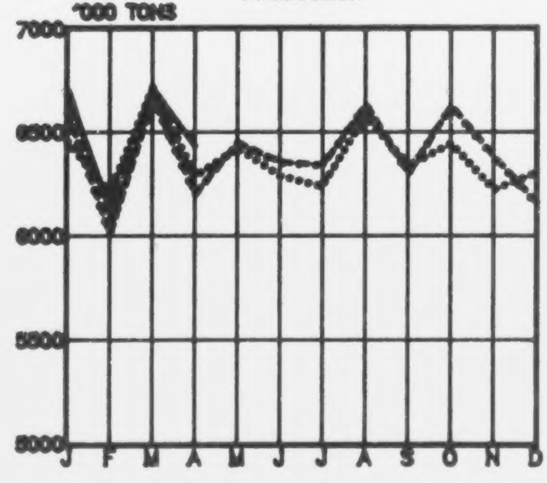
FIBROUS MATERIALS

U.S. shipments of chemical paper grade market wood pulp lagged their year-ago volume by 5% in the first four months of 1990, but were only 3% below the average of the full year 1989. Exports to Japan were down 29%, while domestic shipments were off 9% from year-ago levels. U.S. shipments to Western Europe and Other Markets -- including the Nordic countries -- ran 5% and 9% ahead of their respective 1989 totals.

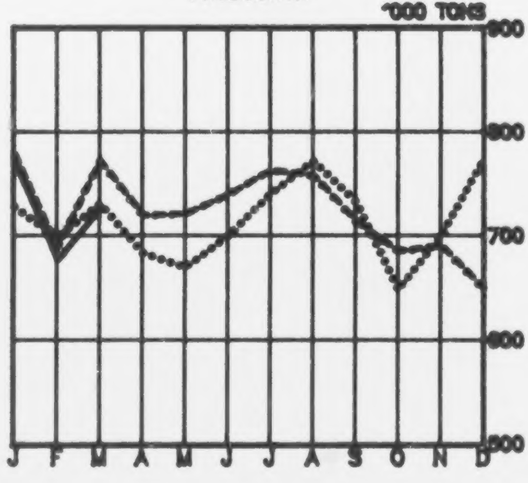
PAPER AND PAPERBOARD STATISTICS PRODUCTION, SHIPMENTS AND ORDERS (Thousands of Tons)	YEAR		JAN	FEB	MAR R	APR P	Annual Rate Y-T-D	% Change From Same Period
	1988	1989	1990	1990	1990	1990	1990	Last Year
PAPER								
Newsprint – Production	5,982	6,088	553	510	543	541	6,440	9.3
– Shipments	5,969	6,079	548	515	543	544	6,452	11.4
Printing & Writing: Total Shipments	21,857	21,540	1,932	1,780	1,895	1,820	22,281	2.9
Groundwood Paper – Shipments	1,624	1,754	157	142	150	155	1,809	4.2
– New Orders	1,654	1,784	162	150	126	129	1,698	0.1
– Unfilled Orders	208	211	190	200	186	147	147	-17.4
Coated Papers – Shipments	7,359	7,194	643	578	614	567	7,209	2.7
– New Orders	7,412	7,262	610	531	643	656	7,322	7.9
– Unfilled Orders	751	822	671	622	658	747	747	15.6
Unctd Free Sheet – Shipments	11,277	11,043	996	930	983	971	11,638	2.9
– New Orders	11,298	11,132	960	992	1,068	1,023	12,128	10.2
– Unfilled Orders	790	784	673	746	846	873	873	41.5
Thin Papers – Shipments	281	245	23	21	26	23	276	7.4
Cotton Fiber Paper – Shipments	167	157	13	14	15	13	166	-0.8
Bleached Bristols – Shipments	1,150	1,148	100	96	106	92	1,183	1.6
Tissue Paper – Production	5,476	5,636	474	452	500	467	5,676	1.9
Total Packaging & Other Paper	5,047	4,925	418	380	417	394	4,824	-2.6
Unbl. Kraft Paper – Shipments	2,800	2,681	216	190	211	192	2,429	-10.3
Other Paper – Production	2,247	2,243	202	189	206	202	2,395	6.7
TOTAL PAPER PRODUCTION – UNADJUSTED	38,363	38,189	3,377	3,121	3,354	3,222	39,222	3.0
TOTAL PAPER PRODUCTION – SEAS ADJ			3,290	3,300	3,205	3,287	39,248	3.1
PAPERBOARD – PRODUCTION								
Containerboard	26,225	26,428	2,284	2,052	2,302	2,200	26,516	0.9
Cont'bd For Dom Use for Fibre Boxes	23,563	23,752	2,027	1,819	2,039	1,977	23,586	0.7
Total Linerboard	16,177	16,399	1,389	1,248	1,409	1,359	16,216	0.8
Unbleached Kraft	15,601	15,833	1,352	1,224	1,366	1,325	15,798	1.8
Solid Bleached	170	178	13	8	14	11	140	-15.0
Recycled	407	388	25	16	28	24	278	-29.8
Corrugating Medium	7,351	7,339	637	570	629	618	7,361	0.4
Semichemical	5,528	5,554	478	419	472	456	5,471	-1.6
Recycled	1,823	1,785	159	152	157	162	1,890	7.0
Container Chip and Filler	35	14	1	1	1	0	10	-45.0
Other Containerboard for Dom Use	320	307	23	18	26	22	269	-11.2
Containerboard for Export	2,342	2,369	234	215	237	201	2,661	4.5
Boxboard	11,878	12,029	1,029	946	1,050	1,002	12,079	0.5
Boxboard for Packaging for Dom Use	7,014	7,076	611	559	621	588	7,134	1.1
Folding Boxboard	5,293	5,370	463	422	472	426	5,348	-0.2
Solid Bleached	2,017	1,980	163	152	165	147	1,877	-4.2
Unbleached Kraft	924	987	86	83	92	83	1,032	8.4
Recycled	2,353	2,403	214	187	215	196	2,439	-0.4
Set-up Boxboard for Dom Use	279	288	27	26	27	29	328	9.6
Milk Carton & Food Service Dom Use	1,442	1,419	120	111	122	133	1,458	4.0
Other Boxboard for Domestic Use	4,075	4,089	345	313	348	338	4,035	-2.7
Boxboard for Export	789	863	73	74	81	76	910	12.3
Paperboard Production by Furnish	38,103	38,456	3,313	2,998	3,352	3,202	38,595	0.8
Unbleached Kraft	19,140	19,490	1,687	1,536	1,715	1,627	19,694	2.2
Semichemical	5,664	5,691	490	430	485	466	5,613	-2.0
Solid Bleached Kraft	4,511	4,521	384	356	388	378	4,517	2.7
Recycled	8,788	8,754	752	677	763	731	8,770	-1.3
Paperboard Production for Export	3,132	3,227	306	289	318	264	3,532	5.5
Unbleached Kraft	2,296	2,373	226	211	231	197	2,596	3.3
Semichemical	136	137	12	12	13	10	142	-12.0
Bleached Kraft	628	683	64	64	69	52	748	17.4
Recycled	72	34	4	2	4	4	46	26.8
TOTAL PAPERBOARD PRODUCTION – UNADJ	38,103	38,456	3,313	2,998	3,352	3,202	38,595	0.8
TOTAL PAPERBOARD PROD – SEAS ADJ			3,206	3,185	3,220	3,266	38,628	0.7
PAPER AND PAPERBOARD – UNADJ	76,466	76,646	6,689	6,119	6,706	6,425	77,817	1.9
PAPER AND PAPERBOARD – SEAS ADJ			6,496	6,485	6,425	6,553	77,876	1.9

R – Revised P – Preliminary Seas. Adj. – Seasonally Adjusted Unadj – Not Seasonally Adjusted

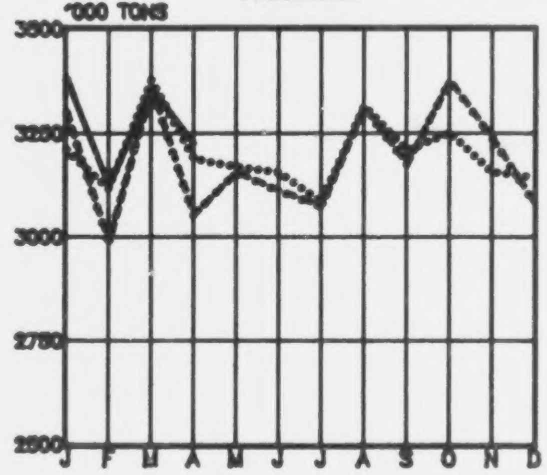
TOTAL PAPER AND PAPERBOARD
PRODUCTION



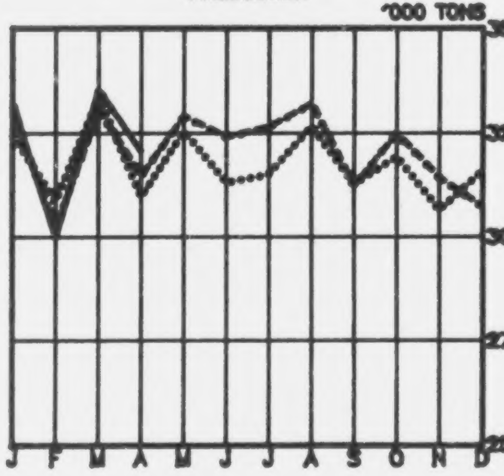
MARKET WOOD PULP
PRODUCTION



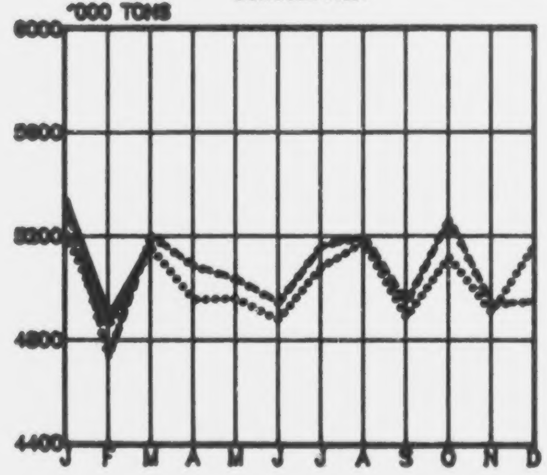
TOTAL PAPER
PRODUCTION



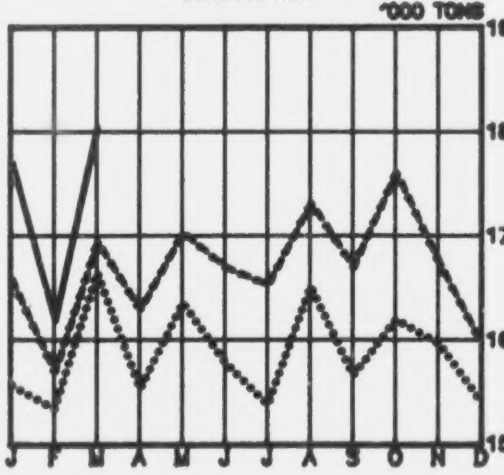
TOTAL PAPERBOARD
PRODUCTION



TOTAL WOOD PULP
CONSUMPTION



TOTAL WASTE PAPER
CONSUMPTION



1988 ········ 1989 ------ 1990 ———

WOOD PULP STATISTICS (Thousands of Tons)			YEAR 1988	YEAR 1989	DEC 1989	JAN 1990	FEB R 1990	MAR P 1990	Annual Rate Y-T-D 1990	% Change From Same Period Last Year
TOTAL WOOD PULP										
Total Wood Pulp	Production		61,161	61,998	4,991	5,480	4,988	5,261	62,914	1.1
	Imports	A	5,038	5,005	398	413	425	429	5,066	-2.0
	Exports		5,528	6,231	585	420	410	578	5,632	-11.3
	New Supply		60,671	60,772	4,805	5,473	5,002	5,112	62,348	2.1
Dissolving Pulp	Production		1,367	1,425	117	125	89	123	1,347	-9.0
	Imports		248	284	21	17	20	23	241	-23.1
	Exports		865	836	90	58	52	71	725	-13.6
	New Supply		751	873	48	85	57	74	863	-9.5
Paper Grades Chemical Pulp	Production		49,493	50,181	3,995	4,418	4,050	4,272	50,958	1.0
	Imports	A	4,419	4,370	343	372	368	373	4,452	-2.9
	Exports		4,612	5,325	490	357	355	503	4,860	-10.4
	New Supply		49,300	49,226	3,848	4,434	4,063	4,141	50,550	1.9
Groundwood and Thermo-Mech	Production		5,943	6,029	523	548	509	501	6,233	6.9
	Imports	A	371	351	34	23	37	33	373	36.6
	Exports		51	70	5	6	3	3	47	-44.3
	New Supply		6,263	6,309	552	566	543	532	6,559	9.0
Semi-Chemical	Production		4,358	4,363	357	389	340	365	4,376	-1.7
	Imports									
	Exports									
	New Supply		4,358	4,363	357	389	340	365	4,376	-1.7
MARKET WOOD PULP										
Total Market Wood Pulp	Production		8,565	8,664	648	770	675	725	8,675	-3.0
	Imports		3,471	3,340	282	266	260	249	3,101	-7.4
	Exports		5,071	5,310	501	311	434	508	5,014	-7.1
	New Supply		6,966	6,694	429	725	501	465	6,763	-1.9
Dissolving Pulp	Production		1,365	1,422	117	125	89	122	1,346	-8.9
	Imports		206	210	17	7	17	18	167	-21.6
	Exports		798	821	93	64	53	75	768	-9.1
	New Supply		774	810	41	68	53	65	746	-11.8
Paper Grades Chemical Pulp	Production		7,200	7,242	531	645	585	602	7,328	-1.8
	Imports		3,126	3,072	261	257	242	229	2,913	-5.7
	Exports		4,273	4,489	409	247	381	433	4,246	-6.7
	New Supply		6,052	5,825	384	654	446	399	5,995	-0.1
Groundwood Pulp and All Other	Production		0	0	0	0	0	0	0	0.0
	Imports		139	58	3	2	2	2	22	-55.7
	Exports		0	0	0	0	0	0	0	0.0
	New Supply		139	58	3	2	2	2	22	-55.7

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

NOTE: A - API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

FIBROUS RAW MATERIALS (Thousands of tons)	YEAR 1988	YEAR 1989	DEC 1989	JAN 1990	FEB R 1990	MAR P 1990	Annual Rate 1990	% Change From Same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS								
Total	79,315	80,739	6,540	7,098	6,504	6,975	82,307	2.1
Total Wood Pulp	60,294	60,725	4,945	5,330	4,887	5,171	61,550	0.9
Waste Paper	19,021	20,014	1,596	1,768	1,617	1,804	20,757	5.5
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	172	179	193	192	215	203	203	13.2
Producers' Market Inventories	261	279	342	518	531	486	486	74.3
Consumers' Purchased Inventories #	622	592	519	539	542	475	475	-19.7
Waste Paper at Paper & Bd. Mills	1,044	1,058	1,095	1,107	1,055	1,031	1,031	-2.6
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	14	13	19	30	29	26	26	100.0

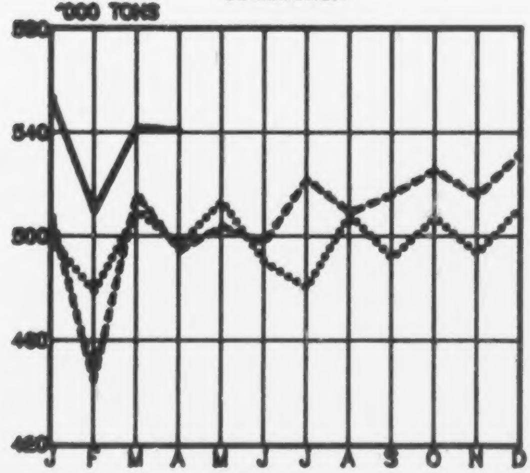
SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.

Includes all grades of wood pulp

P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

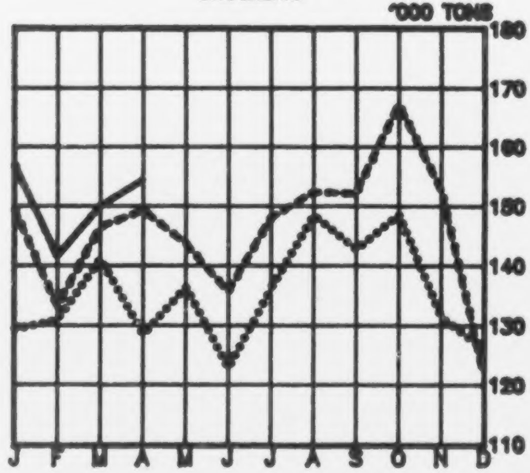
NEWSPRINT

PRODUCTION



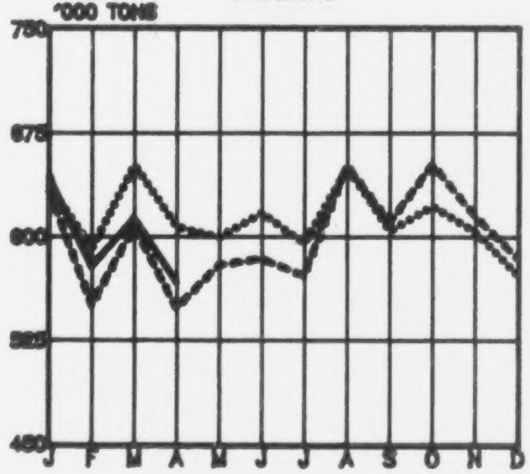
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



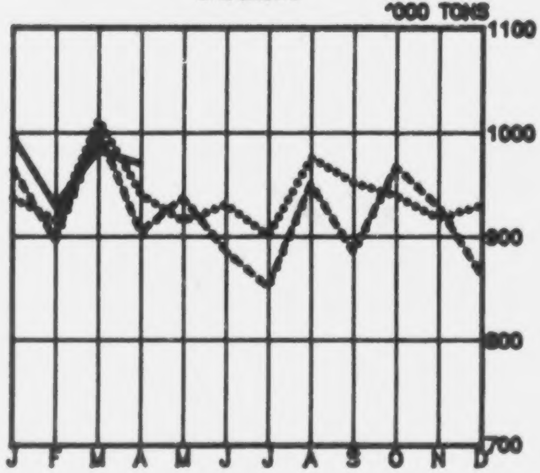
COATED PAPER

SHIPMENTS



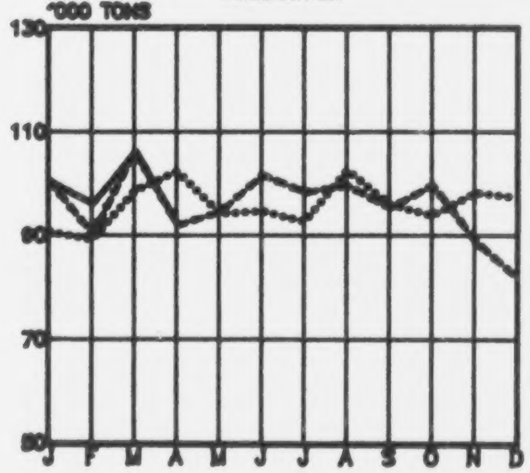
UNCOATED FREE SHEET PAPERS

SHIPMENTS



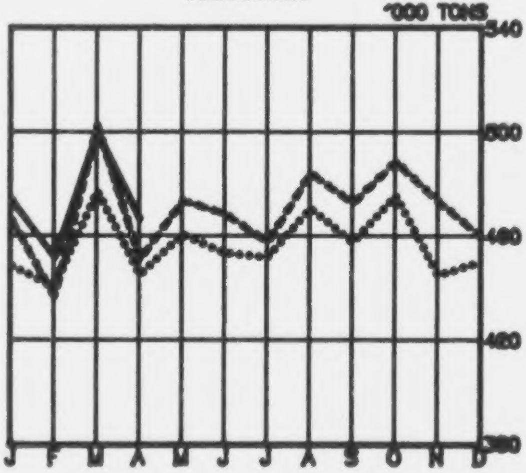
BLEACHED BRISTOLS

PRODUCTION



TISSUE PAPER

PRODUCTION



1988 ········ 1989 - - - - - - 1990 ———

FIBROUS RAW MATERIALS (Thousands of Standard (128 Cu. ft.) Cord	YEAR		DECEMBER	JANUARY	FEBRUARY	MARCH	ANNUAL RATE Y-T-D	% CHANGE FROM SAME PD
	1988	1989	1989	1990	1990	1990	1990	LAST YEAR
PULPWOOD								
Total U.S. – Total Receipts	96,537	99,279	7,844	8,741	8,215	8,260	100,864	4.1
– Total Consumpt	95,497	96,414	7,936	8,553	8,108	8,341	100,008	2.6
– Residues *	33,186	34,539	2,808	3,100	2,854	2,927	35,524	5.5
– Inventories	4,888	5,462	5,462	5,571	5,597	5,433	5,433	21.0
So. Atlantic – Total Receipts	31,582	31,982	2,474	2,885	2,691	2,780	33,424	6.2
– Total Consumpt	31,567	32,239	2,585	2,783	2,636	2,750	32,676	1.5
– Residues *	9,897	9,961	833	1,015	877	924	11,264	12.5
– Inventories	1,200	936	936	1,000	1,017	1,036	1,035	1.5
Northeast – Total Receipts	7,187	7,242	596	692	649	586	7,706	-2.8
– Total Consumpt	7,216	7,072	538	639	591	607	7,348	0.2
– Residues *	1,664	1,575	108	127	125	128	1,512	-16.2
– Inventories	572	522	522	553	599	549	549	-17.7
South Central – Total Receipts	33,751	36,840	2,788	3,057	2,966	3,113	36,644	7.3
– Total Consumpt	33,646	35,791	2,891	3,064	3,019	3,077	36,840	5.3
– Residues *	9,890	10,539	844	924	919	936	11,116	10.5
– Inventories	1,160	1,336	1,336	1,304	1,172	1,221	1,221	26.4
North Central – Total Receipts	6,866	7,020	581	668	660	540	7,552	1.3
– Total Consumpt	6,929	6,963	561	631	571	595	7,188	3.4
– Residues *	1,334	1,422	126	112	104	108	1,296	-12.2
– Inventories	839	938	938	999	1,081	1,030	1,030	18.4
West – Total Receipts	16,152	17,196	1,405	1,419	1,249	1,241	15,636	-2.2
– Total Consumpt	16,139	16,349	1,361	1,436	1,291	1,312	16,156	-0.3
– Residues *	10,401	11,042	897	922	829	833	10,336	0.2
– Inventories	1,117	1,730	1,730	1,715	1,728	1,596	1,596	66.6

* – Consumption of Residues in cords equivalent SOURCE: American Pulpwood Association

		IMPORTS FROM CANADA *						ANNUAL	% CHANGE
UNITED STATES TRADE WITH CANADA		YEAR 1989		FEBRUARY 1990		MARCH 1990		RATE Y-T-D 1990	FROM SAME PD LAST YEAR
		Tons	($000)	Tons	($000)	Tons	($000)	Tons	
Pulpwood, Roundwood (in cubic meters)		211,061	4,582	0	0	0	0	0	-100.0
Pulpwood chips		792,186	27,339	61,739	2,051	57,947	1,664	676,585	-36.7
Wood Pulp, Total	A	4,353,343	2,599,247	378,635	230,341	393,121	239,833	4,612,690	-0.8
Waste Fibrous Materials, Total		164,217	31,659	11,450	2,760	12,435	2,626	148,516	-26.9
Paper, Board & Products, Total	A	10,986,831	6,104,181	917,689	500,472	985,217	546,345	11,343,368	5.0
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	A	10,807,659	5,782,419	906,501	473,543	972,637	515,312	11,203,178	5.9
Paper, Paperboard & Products	A	10,830,546	6,065,466	908,541	496,066	975,848	543,682	11,233,160	6.2
Paper & Paperboard, Only	A	10,651,373	5,743,703	897,363	471,157	963,268	512,649	11,092,970	7.2
Paper, Total	A	10,234,266	5,579,018	859,862	456,896	919,584	496,026	10,636,322	6.7
Newsprint	A	8,330,874	4,278,705	688,371	342,387	721,848	361,185	8,420,690	3.4
Printing, Writing & Rel. Pap.	A	1,579,696	1,069,263	144,501	94,516	168,730	114,874	1,856,673	23.3
Pack. & Ind. Conv. Paper		217,159	119,140	15,557	9,045	19,653	11,170	222,856	-2.7
Special Industrial Paper		49,045	60,344	5,728	5,668	4,822	4,765	70,390	56.1
Tissue Paper		57,481	51,567	5,696	5,261	4,531	4,027	64,511	7.0
Paperboard, Total		417,117	164,685	37,500	14,261	43,685	16,623	454,648	22.0
Convtd Paper&Paperbd Products		179,172	321,762	11,189	26,929	12,580	31,033	140,190	-37.8
Wet Machine Board		293	245	34	24	143	125	1,079	1068.0
Construction Paper & Board		155,993	38,472	9,114	2,362	9,226	2,536	109,129	-52.0

NOTE: A – API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

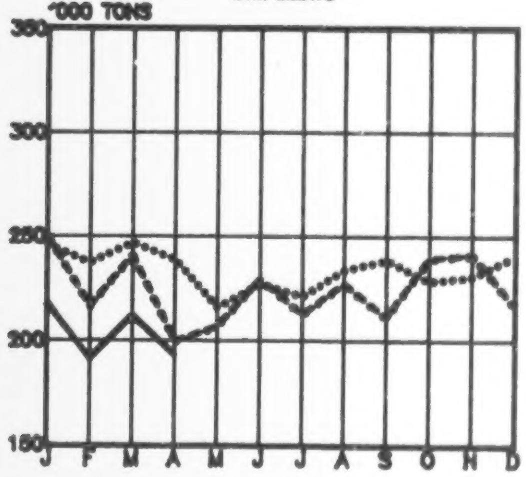
NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

			EXPORTS TO CANADA *					
Pulpwood, Roundwood (in cubic meters)	62,892	1,120	36,301	3,830	35,639	3,649	405,684	405584.0
Pulpwood chips	28,216	1,241	9,975	534	24,414	1,163	180,769	535.2
Wood Pulp, Total	352,696	141,272	29,806	14,432	31,414	16,391	392,063	31.1
Cotton Pulp & Other Pulp	6,216	4,249	151	180	465	547	3,627	-51.4
Waste Paper	284,379	38,555	44,012	8,359	54,085	9,918	598,080	89.3
Paper, Board & Products, Total	1,083,228	763,613	87,863	96,706	102,632	113,568	1,163,129	38.4
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	754,575	497,470	66,887	63,273	77,080	70,706	886,970	55.0
Paper, Paperboard & Products	1,062,580	755,610	87,761	96,625	102,472	113,445	1,161,736	41.1
Paper & Paperboard, Only	733,907	489,668	66,765	63,190	76,920	70,582	884,677	59.5
Paper, Total	371,206	340,312	41,451	47,933	46,369	51,594	531,116	76.8
Newsprint	8,316	5,891	907	506	1,726	946	20,432	297.8
Printing, Writing & Rel. Pap.	228,021	222,055	31,094	34,727	34,795	38,029	385,366	111.0
Pack. & Ind. Conv. Paper	66,390	29,624	4,053	2,887	4,080	2,986	51,351	26.2
Special Industrial Paper	62,645	72,955	4,560	8,928	4,613	8,407	61,301	-4.7
Tissue Paper	6,634	9,787	837	886	1,154	1,226	12,866	155.2
Paperboard, Total	362,701	149,356	25,314	15,256	30,551	18,988	353,462	37.3
Convtd Paper&Paperbd Products	326,653	266,143	20,996	35,436	25,552	42,863	277,159	3.1
Wet Machine Board	1,628	660	0	0	0	0	0	-100.0
Construction Paper & Board	19,040	7,143	122	83	160	123	1,394	-90.7

SOURCE: Bureau of Census, Department of Commerce . E – Estimate of tonnage based on square foot data

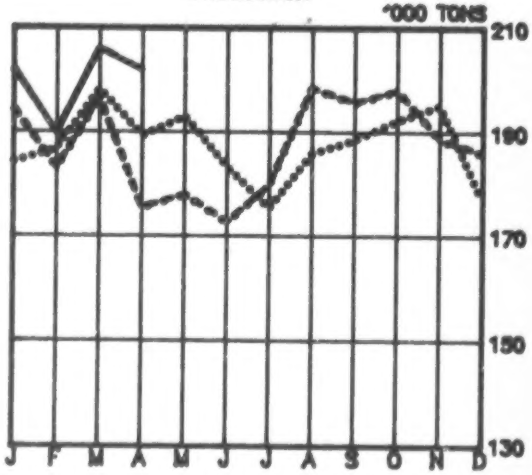
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



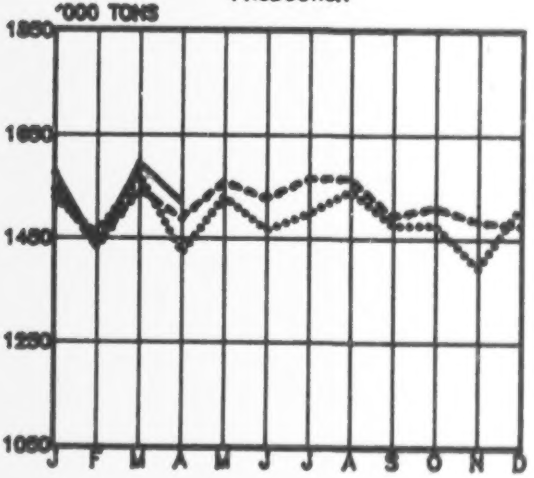
OTHER PAPER

PRODUCTION



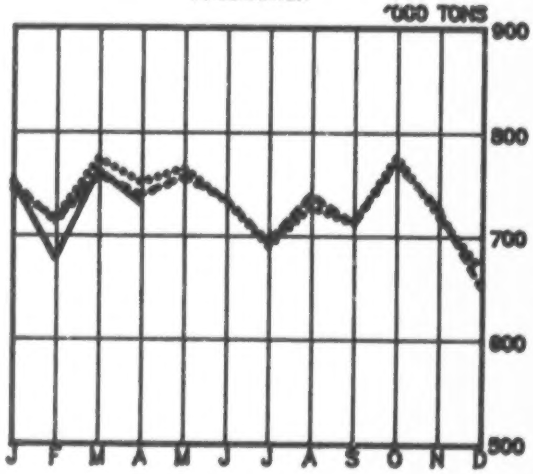
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



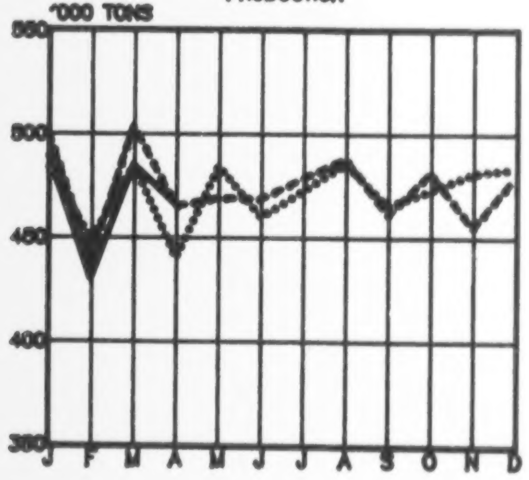
RECYCLED PAPERBOARD

PRODUCTION



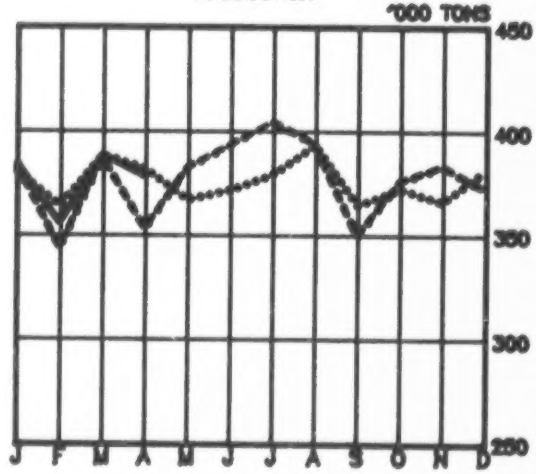
SEMICHEMICAL PAPERBOARD

PRODUCTION



SOLID BLEACHED PAPERBOARD

PRODUCTION



1988 ········ 1989 - - - - - 1990 ———

PULP, PAPER AND PAPERBOARD IMPORTS		YEAR 1989		FEBRUARY 1990		MARCH 1990		Annual Rate YTD 1990	% Change from same Period Last Year
		Tons	$000	Tons	$000	Tons	$000	Tons (1)	
Pulpwood Roundwood (cubic meters)		211,061	4,582	0	0	0	0	0	-100.0
Pulpwood Chips		805,381	27,759	61,810	2,073	58,131	1,861	679,718	-39.2
Total All Imports	A	18,288,860	11,352,263	1,479,426	913,470	1,603,790	994,503	18,531,177	0.3
Wood Pulp Total	A	5,005,100	2,980,642	424,736	259,524	429,142	262,189	5,086,386	-2.0
Waste Paper		172,575	33,197	9,861	1,828	11,741	2,234	135,676	-38.4
Other Fibrous Materials		11,254	8,518	1,804	1,153	841	494	15,723	-1.8
Paper Board & Products Total	A	13,099,931	8,329,906	1,043,025	650,965	1,162,056	729,586	13,313,411	1.9
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	A	12,537,474	7,231,648	1,010,787	570,647	1,125,710	644,063	12,904,270	4.0
Paper Ppbd & Prds ex Cnst&WMB	A	12,910,205	8,279,503	1,032,932	647,944	1,151,563	726,218	13,190,497	3.1
Paper & Paperboard Only	A	12,347,748	7,181,244	1,000,594	567,627	1,115,207	640,695	12,781,356	5.3
Paper Total	A	11,814,263	6,900,798	955,514	545,976	1,064,168	616,009	12,230,198	5.1
Newsprint	A	8,553,401	4,379,613	693,508	345,118	733,222	366,618	8,594,982	2.6
Printing & Writing	A	2,732,978	1,996,141	220,263	156,099	286,087	204,120	3,083,132	12.6
Uncoated Groundwood		1,304,114	817,785	87,038	51,977	131,123	79,731	1,325,676	1.8
Coated Print & Impreg. Pap.	A	774,022	632,484	71,110	57,130	87,347	72,294	952,002	39.5
Uncoated Free Sheet	A	583,077	462,404	56,585	40,364	61,037	44,236	733,560	8.9
Thin (except Cigarette)		12,711	15,200	516	739	1,136	1,711	11,218	-28.7
Bristols		59,052	68,267	4,914	6,859	5,444	6,148	60,686	-4.5
Total Pkg & Other Paper		407,087	414,353	32,052	35,929	36,665	37,680	442,472	7.4
Unbleached Kraft Paper		239,303	116,011	15,996	7,999	20,337	10,102	234,629	-6.9
Other Pkg. & Indust. Paper		167,785	298,342	16,057	27,930	16,328	27,578	207,843	30.0
Tissue		120,797	110,691	9,391	8,830	8,194	7,591	109,612	-6.5
Paperboard, Total		533,486	280,446	45,181	21,651	51,040	24,687	551,158	11.7
Test or Containerboard		85,048	34,401	9,605	4,140	13,946	5,729	127,210	74.1
Semi-Chemical Corrugating		118,176	36,462	8,053	2,242	9,954	2,888	107,236	-10.8
Other Paperboard		330,262	209,584	27,523	15,269	27,140	16,069	316,712	5.6
Convtd Paper&Paperbd Products		562,457	1,098,259	32,238	80,318	36,346	85,523	409,141	-38.3
Paper Products, Total		470,471	924,729	24,207	66,531	28,356	70,305	316,294	-44.3
Paperboard Products, Total		91,986	173,529	8,031	13,787	7,990	15,218	92,847	-2.7
Wet machine Board		606	580	62	54	167	151	1,353	320.1
Construction Paper & Board E		189,119	49,824	10,030	2,968	10,336	3,217	121,561	-65.1
Notes									
Other: No Weight Avail. ($000)			136,624		8,576		10,842	108,860	-1.4
Total Imports Incl. Other($000)			11,488,886		922,045		1,005,346	11,658,518	2.0

NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

PULP, PAPER AND PAPERBOARD EXPORTS	YEAR 1989		FEBRUARY 1990		MARCH 1990		Annual Rate YTD 1990	% Change from same Period Last Year
	Tons	$000	Tons	$000	Tons	$000	Tons (1)	
Pulpwood, Roundwood (cubic meters)	137,617	3,475	38,074	3,952	43,039	3,946	478,656	623.0
Pulpwood Chips	4,357,811	388,154	365,061	34,284	340,739	30,475	4,088,405	1.4
Total All Exports	18,633,605	8,603,945	1,379,368	671,668	1,756,341	846,423	18,661,590	0.0
Wood Pulp,Total	6,231,172	3,512,604	410,181	242,753	577,821	330,803	5,632,189	-11.3
Cotton Pulp and Other Pulp	122,045	100,510	11,675	9,506	8,651	8,741	109,897	-7.6
Waste and Old Paper	5,960,620	729,797	457,375	55,904	571,889	71,722	6,219,756	5.5
Paper, Board & Products,Total	6,299,798	4,261,035	500,137	363,506	587,980	435,158	6,718,647	6.5
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	5,259,733	2,982,686	417,296	249,336	507,216	301,030	5,673,656	7.1
Paper, Ppbd & Prod ex Cnst&WMB	6,263,491	4,246,277	499,456	363,150	587,114	434,625	6,711,216	6.9
Paper & Paperboard, Only	5,223,456	2,967,928	416,615	248,982	506,351	300,497	5,665,225	7.7
Paper, Total	1,465,752	1,233,527	115,602	108,796	128,652	121,724	1,502,227	4.8
Newsprint	624,796	357,381	39,580	20,870	39,731	20,233	516,900	-22.1
Printing & Writing	478,201	465,168	53,333	55,968	62,015	64,016	665,220	61.2
Uncoated Groundwood	88,056	64,766	4,005	3,827	6,024	6,597	73,313	-14.8
Clay Coated Paper	168,538	131,418	15,843	15,858	20,982	19,831	218,054	58.8
Uncoated Free Sheet	122,346	166,830	18,304	22,578	21,324	26,060	239,460	136.3
Other Printing & Writing	99,260	102,154	15,181	13,725	11,686	11,508	157,393	64.7
Total Pkg. & Other Paper	342,041	380,790	20,288	29,510	23,822	34,034	266,154	-18.2
Unbleached Kraft	125,818	60,318	8,315	4,383	10,189	6,252	106,193	-10.2
Other Pkg. & Indust. Paper	216,223	320,472	11,973	25,127	13,634	28,782	159,961	-22.8
Tissue	20,712	30,187	2,401	2,429	3,084	3,441	33,954	77.7
Paperboard, Total	3,757,704	1,734,402	301,013	140,186	377,699	178,773	4,162,998	8.8
Solid Wood Pulp	3,572,758	1,646,152	283,386	131,436	358,159	168,683	3,939,486	7.9
Total Linerboard	2,499,716	935,364	208,968	77,351	263,841	97,115	2,900,704	9.2
Bleached Kraft Linerboard	283,113	127,787	22,804	10,610	30,316	13,727	343,897	11.1
Unbleached Kraft Linerbd	2,216,603	807,578	136,164	66,741	233,525	83,388	2,556,807	9.0
Other Unbleached Kraft	246,575	113,315	20,800	10,290	17,981	9,640	250,874	12.9
Other Bleached Kraft	796,305	582,979	51,147	42,701	72,787	60,634	753,200	0.9
Semi-Chemical Corrugating	31,162	14,494	2,471	1,094	3,551	1,296	34,706	37.8
Recycled Paperboard	184,947	88,250	17,627	8,750	19,540	10,090	223,512	27.0
Convtd Paper&Paperbd Products	1,040,036	1,278,349	82,841	114,169	90,763	134,128	1,045,962	2.9
Paper Products, Total	473,435	832,806	32,065	72,644	37,251	83,944	411,208	-12.3
Paperboard Products, Total	566,601	445,543	50,776	41,524	53,513	50,184	634,783	16.0
Wet Machine Board	2,889	1,256	131	54	70	32	989	-66.7
Construction Paper & Board E	33,388	13,501	550	301	796	801	7,442	-77.8
Notes								
Other: No Weight Avail. ($000)		23,865		2,652		4,127	40,893	152.6
Total Exports Incl. Other($000)		8,627,811		674,321		850,550	9,061,060	7.6

SOURCE: Bureau of Census, U.S. Department of Commerce. E – Incl. estim. of tonnage based on square foot data.

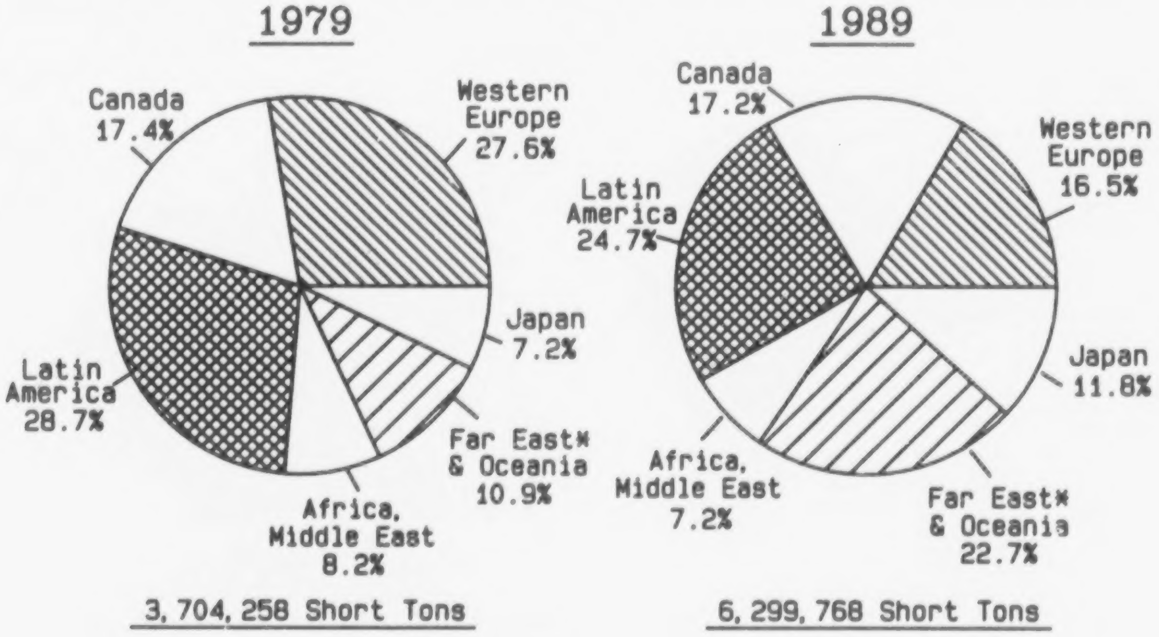
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES 1982 = 100	YEAR		JAN	FEB	MAR	APR	Annual Rate Y-T-D	% Change from same Period Last Year
	1988	1989	1990	1990	1990	1990	1990	
Pulp, Paper and Products except Building Grades	124.8	132.4	133.4	133.3	133.2	133.4	133.3	1.6
Pulp Paper & Products, ex. Building Grades & ex. Waste Paper *	123.8	132.0	133.1	133.0	132.9	133.2	133.1	1.8
Total Wood Pulp	136.7	157.4	159.8	160.3	158.0	154.3	158.1	3.2
Total Paper	123.2	129.6	128.0	127.5	127.4	127.8	127.7	-1.9
Writing Paper, exc. Newsprint	123.4	130.5	128.4	127.9	127.7	128.3	128.1	-2.3
Newsprint	127.6	122.5	117.9	115.1	115.3	115.1	115.9	-8.3
Total Paperboard	133.2	140.1	138.8	138.4	138.5	137.8	138.4	-1.0
Total Paper and Paperboard *	126.4	132.9	131.4	130.9	130.9	130.9	131.0	-1.6
Converted Products	123.0	131.7	134.5	134.6	134.6	135.6	134.8	4.1
Waste Paper	183.6	157.1	151.4	149.7	149.3	145.3	148.9	-6.2
All Commodities	106.9	112.2	114.9	114.4	114.2	114.0	114.4	2.8
Industrial Commodities	106.3	111.6	114.2	113.6	113.2	113.1	113.5	2.7

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

EXPORTS OF PAPER, PAPERBOARD AND CONVERTED PRODUCTS

Percent Distribution of U.S. Exports by Major Area of Destination



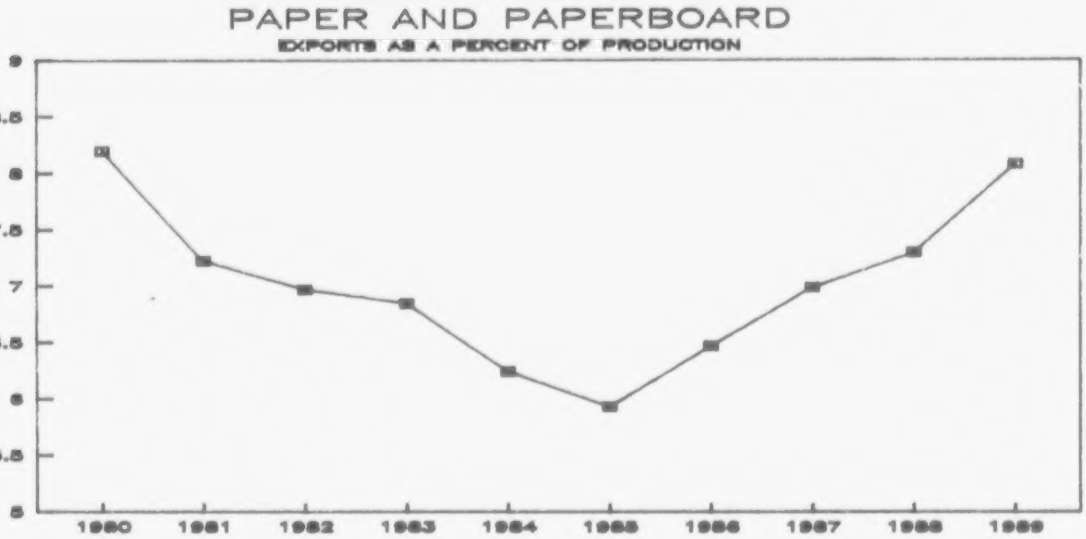
*Includes People's Republic of China

Inventories of chemical paper grade market wood pulp held by U.S. producers moved down from their January 1990 high of 30 days of supply to 22 days of supply as of April 30. Consumers' purchased pulp inventories of 30 days of supply at the end of April 1990 receded to the first quarter 1988 level after peaking at 40 days of supply at the end of September 1989.

Inventories of waste paper at the end of March were down only marginally from year-ago levels and the 1989-1990 pattern remains stable. On a grade-by-grade basis, inventories of old newspapers have dropped sharply since mid-1989, largely offset by accumulations of pulp substitutes and high grade deinking grades.

PAPER AND PAPERBOARD EXPORT TRENDS

Ever since the dollar's trade-weighted exchange rate eased from its excessively high levels of the early and mid-1980's, exports have been a major source of growth for the U.S. paper industry. In the period from 1985 to 1989, exports of paper, paperboard and converted products, as reported by the U.S. Bureau of Census, grew at an average annual rate of 11.5% and their share of overall U.S. paper and paperboard production rose from 5.9% to 8.1%. (See graph below.) Exports advanced a solid 10.6% from 1988 to 1989 and exceeded their year-ago volumes by 6.5% during the first quarter of 1990. The trade statistics for 1989 and 1990 are based on the Harmonized System codes and therefore data for specific export grades are not necessarily comparable to data for prior years.



Continued on page 12

Exports of paper totaled 1,465,752 short tons last year, up one-third relative to 1988. The biggest gainers within the paper category were newsprint, up 46.2% to 624,798 tons, and printing-writing papers, which rose 66.5% to 478,201 tons. Japan, which is the largest export market for U.S. newsprint, increased its purchases by 17.3% in 1989, to 280,983 tons. Strong gains were also recorded in U.S. newsprint exports to Taiwan, Hong Kong, and Malaysia. In all, Japan and the Far East accounted for 72% of U.S. newsprint exports last year.

Exports of printing-writing papers were paced by clay coated groundwood, which surged 153% in 1989. Exports of uncoated groundwood and uncoated free sheet also registered strong gains last year. Canada was the leading export market for U.S. printing-writing papers in 1989, accounting for 48% of tonnage exports.

Paperboard exports rose 2.9% in 1989 to 3,757,704 tons. The major paperboard export grades -- kraft linerboard and bleached board -- turned in the strongest performances, rising 9.6% and 5.9%, respectively. Exports of other unbleached kraft paperboard, semichemical corrugating medium, and recycled paperboard lost ground last year.

Last year's gain in kraft linerboard exports was mainly due to increased buying by the People's Republic of China, reversing the decline recorded during 1988. U.S. exports of kraft linerboard to Western Europe, Canada, Mexico and South America also recorded strong gains last year, but shipments to Japan and Central America declined.

The graph on page 10 shows the regional distribution of U.S. exports of paper, paperboard and converted products for the years 1979 and 1989. The region of the world that increased its share the most during the ten year period -- from 10.9% in 1979 to 22.7% in 1989 -- was the Far East & Oceania. Japan's relative share expanded from 7.2% to 11.8%. Western Europe and Latin America account for a smaller share of U.S. exports today than they did a decade ago.

Additional details regarding paper industry exports can be found in **"Exports of Pulp, Paper, Paperboard, and Converted Products to World Markets."** Copies of the report have been mailed to API member companies and are available to others for $125 (domestic) and $130 (overseas) from API's International Department.

INDUSTRY FACT SHEET
MONTHLY STATISTICAL SUMMARY INSERT
VOL. 68, NO. 5
MAY, 1990

PRODUCTION (000 TONS)

	(P) APR 1990	(R) MAR 1990	APR 1989	FIRST 4 MONTHS 1990	FIRST 4 MONTHS 1989	% CHANGE YR TO DATE 1990/1989
PAPER GRADES						
Newsprint	541	543	495	2,147	1,963	9.3
Printing & Writing	1,820	1,895	1,731	7,427	7,218	2.9
Uncoated Groundwood (s)	155	150	149	603	579	4.2
Coated Paper (s)	567	614	549	2,403	2,340	2.7
Uncoated Free Sheet Paper (s)	971	983	904	3,879	3,769	2.9
Thin Paper (s)	23	26	23	92	86	7.4
Cotton Fiber Paper (s)	13	15	14	55	56	-0.8
Bleached Bristols (s)	92	106	92	394	388	1.6
Tissue Paper	467	500	451	1,892	1,856	1.9
Total Pkg & Other Paper	394	417	374	1,608	1,651	-2.6
Unbl. Kraft Paper (s)	192	211	199	810	903	-10.3
Other Paper	202	206	175	798	748	6.7
TOTAL PAPER	3,222	3,354	3,050	13,074	12,688	3.0
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,627	1,715	1,588	6,565	6,426	2.2
Unbleached Kraft Linerboard	1,522	1,597	1,489	6,131	6,011	2.0
Other Unbl. Kraft Paperboard	105	118	98	434	415	4.5
Semichemical Paperboard	466	485	465	1,871	1,908	-2.0
Bleached Paperboard	378	388	353	1,506	1,467	2.7
Recycled Paperboard	731	763	740	2,923	2,963	-1.3
TOTAL PAPERBOARD	3,202	3,352	3,145	12,865	12,764	0.8
TOTAL PAPER AND PAPERBOARD	6,425	6,706	6,196	25,939	25,452	1.9

WOOD PULP (ALL GRADES)	MAR 1990	FEB 1990	MAR 1989	FIRST 3 MONTHS 1990	FIRST 3 MONTHS 1989	% CHANGE YR TO DATE 1990/1989
Dissolving & Special Alpha	123	89	141	337	370	-9.0
Bleached Sulfite) Unbleached Sulfite)	127	140	134	391	396	-1.2
Bleached & Semi-Bl. Sulfate	2,294	2,174	2,305	6,853	6,798	0.8
Unbleached Sulfate	1,852	1,735	1,825	5,495	5,421	1.4
Semichemical	365	340	378	1,094	1,113	-1.7
Groundwood & Thermomechanical	501	509	501	1,558	1,457	6.9
TOTAL PULP DIVISION DATA	5,261	4,988	5,283	15,729	15,556	1.1

(s) - Shipments
P - Preliminary
R - Revised

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

INDUSTRY DATA MAY 31, 1990	1988	1989	1990	1990 R	1990 P	AN RATE Y-T-D 90	% CH SAME PD 89
PAPER AND PAPERBOARD -- Tons (000)			Feb	Mar	Apr		
Total Production (API)..........: excluding :	78,466	78,846	6,119	6,708	6,425	77,817	1.9
Total Seasonally Adjusted..........: construction :			6,485	6,425	6,553	77,876	1.9
Imports (including Products).......: and wet :.....E	12,786	12,910	1,033	1,152	1,088	13,157	3.2
Exports (including Products).......: machine :.....E	5,559	6,264	489	597	550	6,863	8.3
Apparent Consumption...............: grades :	83,694	83,292	7,018	6,980	7,091	84,290	1.5
Paper Production % Tonnage Capacity	95.4 g	92.4	98.4	93.3	93.1	94.2	-
Paperboard Production % Tonnage Capacity	94.5 g	93.5	93.5	94.1	93.4	93.6	-
PAPER, PAPERBOARD AND PRODUCTS			Jan	Feb	Mar		
Imports.....:Including Construction and :	13,110	13,101	1,123	1,043	1,162	13,313	1.9
Exports.....: WMB Grades (excl. HPB) :	5,691	6,300	582	500	598	6,720	6.5
MARKET WOOD PULP PRODUCTION – Tons (000)	8,565	8,864	770	675	725	8,676	-2.0
TOTAL WOOD PULP PRODUCTION – Tons (000)	61,161 f	61,896 f	5,460	4,998	5,261	62,916	1.1
WOOD PULP IMPORTS – TONS (000)	5,036	5,005	413	425	429	5,066	-2.0
WOOD PULP EXPORTS – TONS (000)	5,528	6,231	420	410	578	5,632	-11.3
RAW MATERIALS CONSUMPTION – Tons (000)							
PAPER AND BOARD MILLS....: excluding :			Jan	Feb	Mar		
Wood Pulp..........: consumption for :	60,294	60,725	5,330	4,887	5,171	61,550	0.9
Waste Paper..........: construction & :	19,021	19,987	1,766	1,617	1,804	20,757	5.5
TOTAL..........: WMB grades :	79,315	80,722	7,096	6,504	6,975	82,308	2.1
PULPWOOD CONSUMPTION Cords (000) Amer. Pulpwd. Assn	95,407	98,414	8,553	8,108	8,341	100,008	2.6
EMPLOYMENT (000)			Feb	Mar	Apr		
Paper and Allied Products.........Total	692.6	697.2	694.4	693.9	694.0	693.9	0.3
Pulp, Paper and Board Mills........Total......E	247.2	247.1	246.2	246.0	246.1	246.4	0.7
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			Feb	Mar	Apr		
Paper and Allied Products	11.66	11.93	12.12	12.13	12.26	12.16	3.0
Pulp, Paper Mills......E	14.31	14.71	14.98	14.90	15.21	15.03	3.5
Paperboard Mills.......E	14.49	14.76	14.97	14.97	15.19	15.03	3.5
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1989 Q3	1989 Q4	1990 Q1		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	11.36	15.69	15.82	17.69	18.00	17.7:	12.9
INDEX OF OUTPUT PER MAN-HOUR (1977=100)			Feb	Mar	Apr		
:IN PULP, PAPER :...Production Workers	146.0	146.6	149.1	149.6	148.0	149.3	0.6
:AND BOARD MILLS:...All Employees	142.9	143.5	145.7	145.8	145.2	145.9	0.6
PAPER AND ALLIED PRODUCTS (Million $)			Jan	Feb	Mar		
Industry Shipments (Dept. of Commerce)*	127,716	130,501	10,678	10,767	10,985	129,720	-0.6
Pulp, Paper and Paperboard*	57,177	57,700	4,551	4,618	4,727	55,584	-4.8
Inventories (End of Period) - Total Industry*	12,085	12,571	12,725	12,699	12,649	12,649	6.2
Pulp, Paper and Paperboard*	4,325	4,980	4,996	4,979	4,954	4,954	9.0
PAPER AND ALLIED PRODUCTS COMPANIES (Million $)			1989 Q2	1989 Q3	1989 Q4		
Sales (Corporations Only)	107,221	112,236	28,534	28,096	28,327	N.A.	N.A.
Earnings (Corporations Only)	8,061	7,000	2,022	1,850	1,149	N.A.	N.A.
Depreciation (Corporations Only)	4,625	4,954	1,231	1,247	1,289	N.A.	N.A.
Net Worth (Corporations Only)	42,940	45,888	45,242	46,513	45,886	N.A.	N.A.
PRICE INDEXES (Bureau of Labor Stats)1982=100			Feb	Mar	Apr		
Pulp, Paper & Products, ex. Building Grades	124.8	132.4	133.3	133.2	133.4	133.3	1.8
Wood Pulp	136.7	157.4	160.3	158.0	154.3	158.1	3.2
Waste Paper	183.6	157.1	149.7	149.3	145.3	148.9	-6.2
Paper	123.2	129.6	127.5	127.4	127.8	127.7	-1.9
Paperboard	133.2	140.1	138.4	138.5	137.8	138.4	-1.0
PAPER DEMAND (INDEXED: 1987=100)			Feb	Mar	Apr		
Total Paper Production *	138.4	137.7	143.0	138.8	142.4	141.7	3.1
Paper New Supply *	144.4	142.1	145.3	145.3	146.8	146.2	3.2
Demand Indicators - (Weighted Average) *	111.1	115.8	118.2	118.7	118.7	118.3	2.7
Production of Nondurable Goods..........*....(21.2%)	103.6	106.4	108.0	107.7	107.6	107.7	1.8
Disposable Income..........*....(23.9%)	134.9	140.6	143.0	143.2	143.2	143.0	2.8
Total Printing and Publishing..........*....(54.9%)	103.6	108.6	111.4	112.3	112.4	111.7	3.1
PAPERBOARD DEMAND (INDEXED: 1987=100)							
Total Paperboard Production *	131.5	132.7	132.0	133.4	135.4	133.4	0.7
Production for Domestic Use	128.8	129.7	128.1	123.4	132.8	129.4	0.2
Demand Indicators - (Weighted Average) *	104.7	107.2	107.5	108.2	107.5	107.4	0.2
Production of Consumer Goods..........*....(62.06%)	104.0	106.6	107.2	106.2	107.1	107.1	0.5
Production of Equipment..........*....(5.75%)	107.5	112.3	113.2	114.6	113.8	113.4	2.1
Production of Materials..........*....(32.19%)	105.6	107.4	107.0	107.0	107.1	106.8	-0.6
MARKET DATA			Jan	Feb	Mar		
Consumption by Publishers - Tons (000)	13,497	13,483	1,066	1,032	1,151	12,990	0.4
Newspaper Pub. and Printing Empl. Total(000)	475	478	481	481	481	481	0.9
Magazine Advertising Pages (PIB, Inc.)	172,580	179,476	10,400	13,850	15,144	157,572	-4.2
Wholesalers Sales and Inventories (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	52,377	56,803	4,382	3,936	4,458	51,144	-6.1
Inventories (End of Period)	4,436	4,506	4,171	4,050	4,018	4,018	-11.9
FIBRE BOX DATA (Fibre Box Association)			Feb	Mar	Apr		
Fibre Box Shipments (Million square feet)	308,507	313,400	24,180	26,880	26,619	315,284	0.8
Container'bd Inventory at Mill & Plant (000 Tons)	2,553	2,589	2,509	2,626	2,598	2,598	1.4
RETAIL TRADE (Billion $)			Feb	Mar	Apr		
Total Retail Sales *	1,622	1,711	149.9	148.5	148.6	1,794	6.7
Nondurable Goods Stores Sales *	995	1,062	94.9	94.9	94.8	1,136	9.0
GENERAL ECONOMIC DATA			Feb	Mar	Apr		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1987 = 100)*	105.4	108.1	108.5	109.1	108.7	108.5	0.5
PRODUCER PRICES (ALL COMMODITIES) (INDEX 1982=100)	108.9	112.2	114.4	114.2	114.0	114.4	2.8
CONSUMER PRICES (ALL ITEMS-URBAN CON.) (1982-4=100)	118.3	124.0	128.0	128.7	128.9	128.3	5.1
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$)			1989 Q3	1989 Q4	1990 Q1		
G.N.P. or Expenditure - Current $	4,881	5,234	5,281	5,340	5,431	5,431	6.2
G.N.P. or Expenditure - 1982 $	4,024	4,144	4,163	4,174	4,186	4,186	2.0
PAPER AND PAPERBOARD CONSUMPTION - POUNDS PER CAPITA	677	667				674	

f - Wood Pulp Prod exc def., explo & scr. g - Adj for holiday shutdowns R - Revised E - Last month estimated by API Y - Full year estimated by Dep't of Commerce * Seasonally Adjusted

A2500-2

Paper
Paperboard
& Wood Pulp

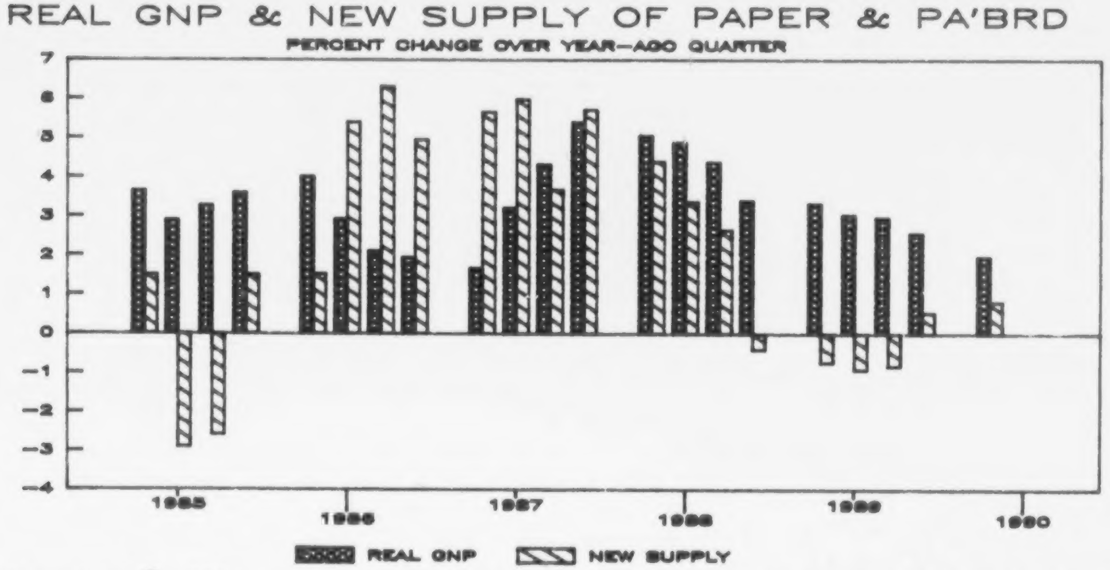
MONTHLY STATISTICAL SUMMARY - Vol.68 No.6 JUNE 1990

PAPER AND PAPERBOARD PRODUCTION
CONTINUES ALONG ITS RECORD-HIGH PATH

The seasonally-adjusted rate of paper and paperboard production in the January-May 1990 period averaged 77.7 million tons per year, 1.7% above its January-May 1989 rate and more than a million tons over the level for all of 1989. The larger gains were shown in the paper grades, which rose 2.8%. Paperboard production also rose to new highs, with a more moderate 0.5% advance.

Imports of paper, paperboard and products advanced at a moderate pace during the first four months of 1990, with the January-April total only 4.2% ahead of their comparable 1989 rate. Over the same time period, exports expanded nearly three times as fast, rising 11.4% Throughout 1988 and most of 1989, however, exports were growing much faster than this, resulting in a downtrend in new supply (production plus imports less exports). New supply turned upward in the fourth quarter of 1989, and continued up in the first quarter of 1990. At the same time, the rate of growth in the real gross national product (real GNP) slowed, edging new supply increases closer to the rate of the economy's expansion as indicated by real GNP.

The chart below shows the per cent change over year-ago rates for real GNP and paper and paperboard new supply. It highlights the faster expansion of new supply from the second quarter of 1986 through the fourth quarter of 1987, and the subsequent reversal of this pattern.


REAL GNP & NEW SUPPLY OF PAPER & PA'BRD

PERCENT CHANGE OVER YEAR-AGO QUARTER

Copyright © 1990 American Paper Institute 260 Madison Avenue New York, N.Y.10016

Paper: The strength in newsprint production continues to lead the paper grades, helping to sustain the rate of paper production at record-high levels. Newsprint production itself averaged 6.5 million tons per year in January-May 1990, 9.1% above its year-ago rate. Although shipments from domestic mills rose 10.8% and those from Canada to the U.S. rose 1.7%, newsprint consumption estimates remained flat, at 13.6 million tons per year, while publishers continued to keep newsprint inventories at a relatively low 40 days of supply. The data suggest some diversion to non-newspaper uses.

Printing-writing paper shipments are also contributing to the growth in paper production, rising 3% from January-May 1989 to the comparable 1990 period. New orders for the major printing-writing grades were well ahead of their comparable 1989 rates, with weekly data for June showing still further gains. Unfilled orders were generally well ahead of their year-ago levels as of the end of May 1990, with the backlog of uncoated free sheet papers up 51%.

Among the other paper grades tissue paper production moved to a new high of 5.73 million tons per year, 2.4% over its year-ago rate. Shipments of unbleached kraft papers fell sharply below their comparable 1989 figures, reflecting weakness in both grocers and multiwall bag papers. Shiments of bleached kraft papers, which are presently included in the "other paper" total, advanced nearly 6% in this period, largely the result of gains in the wrapping and other converting grades.

Paperboard: Linerboard production for domestic use was exactly even with its January-May 1989 level, with weakness in the smaller bleached and recycled linerboard grades offset by a 0.9% increase in unbleached kraft linerboard. Total production of containerboard for domestic use advanced 0.3% from its January-May 1989 output, compared to a 0.9% gain in fiber box shipments.

Exports are offering strong support to the production totals. Year-to-date containerboard production for export -- linerboard plus corrugating medium -- surged 8.2%, bringing these exports to 10% of total containerboard production compared to 9% in the year-ago period.

Asia and Latin America rely heavily on the United States for their containerboard. Data from the Kraftliner Manufacturers Institute indicate that in the first quarter of 1990 Asia received close to 90% of its kraft linerboard imports from the U.S. while about 35% of our exports of kraft linerboard was sent to Asia. Latin America obtained virtually all of its kraft linerboard imports from the United States.

Although total recycled paperboard production was off 1.5% from its comparable 1989 rate, production of recycled corrugating medium -- which accounted for 23.8% of total corrugating medium production in the 1989 period -- ran 6% above its January-May 1989 pace to bring the ratio to 24.9% of the total.

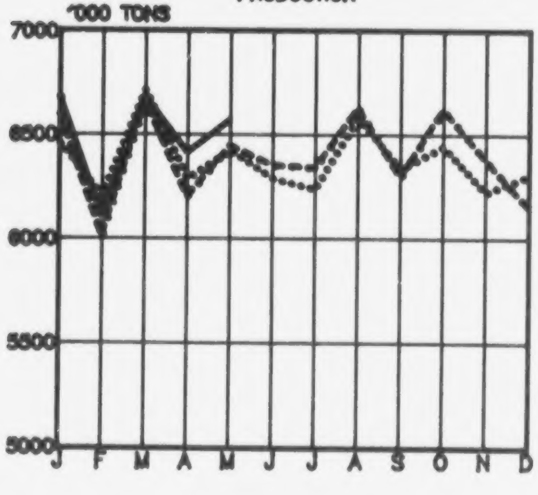
Gains in total boxboard production for export continue to hold total boxboard production close to its 1989 pace. Some shift in demand from bleached folding boxboard to recycled folding boxboard has been evident, facilitating the steadiness in recycled boxboard

PAPER AND PAPERBOARD STATISTICS PRODUCTION, SHIPMENTS AND ORDERS (Thousands of Tons)	YEAR		FEB	MAR	APR R	MAY P	Annual Rate Y–T–D	% Change From Same Period
	1988	1989	1990	1990	1990	1990	1990	Last Year
PAPER								
Newsprint – Production	5,982	6,088	510	543	541	545	6,460	9.1
– Shipments	5,969	6,079	515	543	544	553	6,488	10.8
Printing & Writing: Total Shipments	21,857	21,540	1,780	1,896	1,820	1,835	22,228	2.8
Groundwood Paper – Shipments	1,824	1,754	142	150	156	144	1,794	3.5
– New Orders	1,654	1,784	150	126	129	163	1,751	2.4
– Unfilled Orders	208	211	200	186	147	167	167	-9.8
Coated Papers – Shipments	7,359	7,194	578	614	567	621	7,257	3.5
– New Orders	7,412	7,262	531	643	656	615	7,334	6.3
– Unfilled Orders	751	822	622	658	747	747	747	7.6
Unctd Free Sheet – Shipments	11,277	11,043	930	983	971	938	11,562	2.3
– New Orders	11,296	11,132	965	1,035	990	967	11,802	8.7
– Unfilled Orders	790	784	696	765	757	816	816	51.0
Thin Papers – Shipments	281	245	21	26	23	22	274	6.0
Cotton Fiber Paper – Shipments	167	157	14	15	13	14	166	–0.9
Bleached Bristols – Shipments	1,150	1,148	96	106	92	95	1,175	1.4
Tissue Paper – Production	5,476	5,636	452	500	467	494	5,726	2.4
Total Packaging & Other Paper	5,047	4,925	363	392	378	406	4,665	–4.5
Unbl. Kraft Paper – Shipments	2,800	2,681	185	196	187	206	2,372	–10.8
Other Paper – Production	2,247	2,243	178	196	191	200	2,292	3.2
TOTAL PAPER PRODUCTION – UNADJUSTED	38,363	38,189	3,105	3,329	3,207	3,279	39,079	2.8
TOTAL PAPER PRODUCTION – SEAS ADJ			3,283	3,181	3,271	3,303	39,158	2.8
PAPERBOARD – PRODUCTION								
Containerboard	26,225	26,428	2,052	2,302	2,200	2,282	26,689	1.0
Cont'bd For Dom Use for Fibre Boxes	23,563	23,752	1,819	2,039	1,977	2,015	23,704	0.3
Total Linerboard	16,177	16,399	1,248	1,409	1,359	1,373	16,269	0.0
Unbleached Kraft	15,601	15,833	1,224	1,366	1,325	1,335	15,841	0.9
Solid Bleached	170	178	8	14	11	9	133	–22.9
Recycled	407	388	16	28	24	30	294	–25.3
Corrugating Medium	7,351	7,339	570	629	618	640	7,425	1.2
Semichemical	5,528	5,554	419	472	456	483	5,536	–0.4
Recycled	1,823	1,785	152	157	162	158	1,890	5.9
Container Chip and Filler	35	14	1	1	0	1	10	–33.8
Other Containerboard for Dom Use	320	307	18	26	22	33	294	–5.3
Containerboard for Export	2,342	2,369	215	237	201	234	2,691	8.2
Boxboard	11,878	12,029	946	1,050	1,002	1,007	12,080	–0.2
Boxboard for Packaging for Dom Use	7,014	7,076	550	614	577	592	7,044	–0.7
Folding Boxboard	5,293	5,370	413	466	415	440	5,252	–2.3
Solid Bleached	2,017	1,980	152	165	147	158	1,880	–3.6
Unbleached Kraft	924	987	74	86	72	83	943	–4.1
Recycled	2,353	2,403	187	215	196	199	2,429	–0.6
Set–up Boxboard for Dom Use	279	288	26	27	29	27	327	9.0
Milk Carton & Food Service Dom Use	1,442	1,419	111	122	133	124	1,465	3.3
Other Boxboard for Domestic Use	4,075	4,089	313	348	338	340	4,045	–3.4
Boxboard for Export	789	863	83	87	87	75	991	21.1
Paperboard Production by Furnish	38,103	38,456	2,998	3,352	3,202	3,289	38,769	0.6
Unbleached Kraft	19,140	19,490	1,536	1,715	1,627	1,683	19,796	1.7
Semichemical	5,664	5,691	430	485	466	499	5,688	–0.3
Solid Bleached Kraft	4,511	4,521	356	388	378	366	4,491	1.2
Recycled	8,788	8,754	677	763	731	741	8,794	–1.5
Paperboard Production for Export	3,132	3,232	298	324	288	309	3,682	11.3
Unbleached Kraft	2,296	2,363	220	238	208	232	2,717	10.6
Semichemical	136	138	12	13	10	16	153	1.4
Bleached Kraft	628	693	64	69	65	56	764	15.5
Recycled	72	38	2	4	4	5	48	22.0
TOTAL PAPERBOARD PRODUCTION – UNADJ	38,103	38,456	2,998	3,352	3,202	3,289	38,769	0.6
TOTAL PAPERBOARD PROD – SEAS ADJ			3,185	3,220	3,266	3,188	38,554	0.5
PAPER AND PAPERBOARD – UNADJ	76,466	76,646	6,103	6,681	6,409	6,568	77,849	1.7
PAPER AND PAPERBOARD – SEAS ADJ			6,467	6,401	6,537	6,492	77,712	1.7

R – Revised P – Preliminary Seas. Adj. – Seasonally Adjusted Unadj – Not Seasonally Adjusted

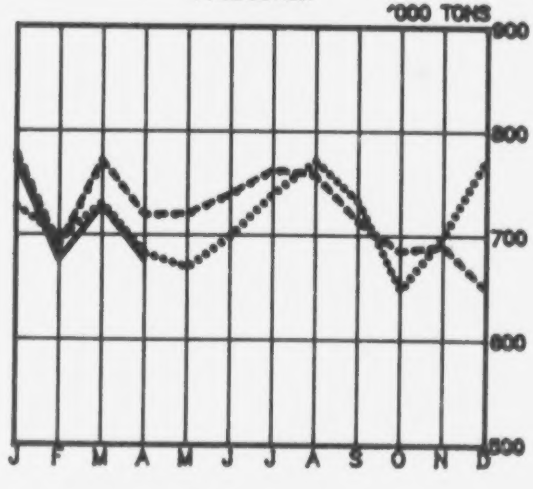
TOTAL PAPER AND PAPERBOARD

PRODUCTION



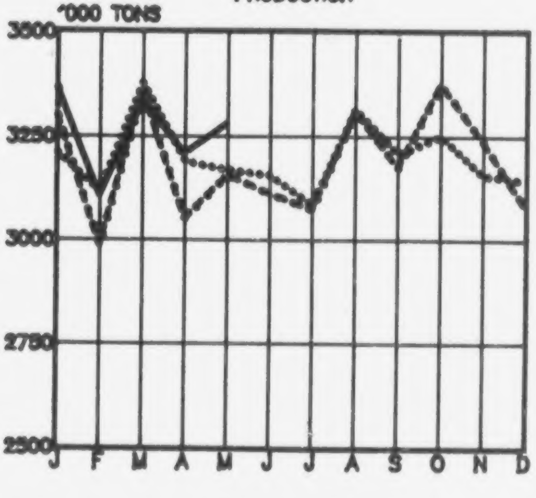
MARKET WOOD PULP

PRODUCTION



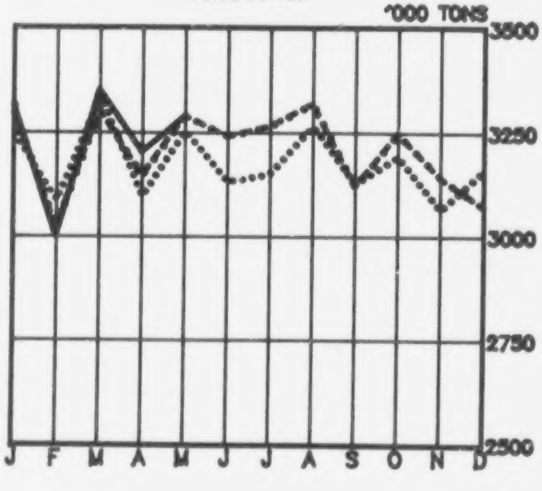
TOTAL PAPER

PRODUCTION



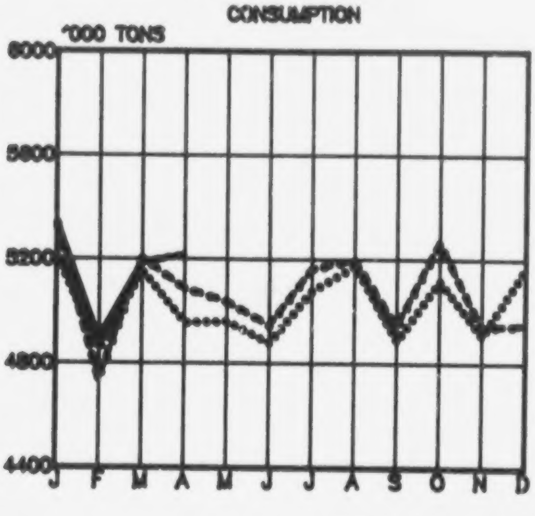
TOTAL PAPERBOARD

PRODUCTION



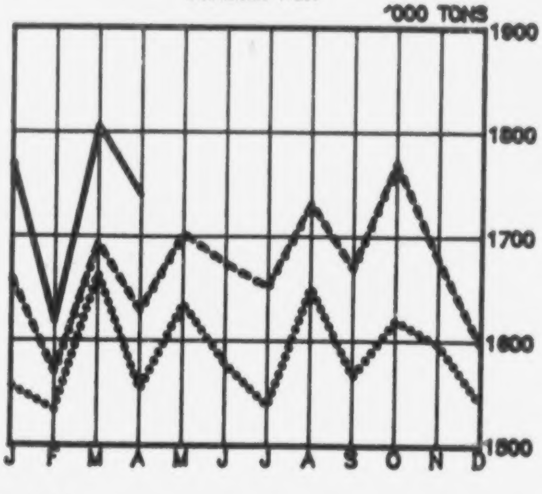
TOTAL WOOD PULP

CONSUMPTION



TOTAL WASTE PAPER

CONSUMPTION



1988 .... 1989 ------ 1990 ——

WOOD PULP STATISTICS (Thousands of Tons)			YEAR		JAN	FEB	MAR R	APR P	Annual Rate Y-T-D	% Change From Same Period Last Year
			1988	1989	1990	1990	1990	1990	1990	
TOTAL WOOD PULP										
Total Wood Pulp	Production		61,161	61,998	5,480	4,988	5,272	5,253	62,976	1.2
	Imports	A	5,038	5,005	413	425	429	418	5,052	-1.6
	Exports		5,528	6,231	420	410	578	538	5,838	-7.8
	New Supply		60,671	60,772	5,473	5,002	5,123	5,132	62,190	1.9
Dissolving Pulp	Production		1,367	1,425	125	89	123	98	1,303	-8.7
	Imports		248	284	17	20	23	15	226	-26.5
	Exports		865	836	58	52	71	71	756	-9.2
	New Supply		751	873	85	57	74	42	773	-14.3
Paper Grades	Production		49,493	50,181	4,418	4,050	4,275	4,222	50,893	0.8
Chemical Pulp	Imports	A	4,419	4,370	372	368	373	371	4,453	-1.7
	Exports		4,612	5,325	357	355	503	460	5,024	-7.3
	New Supply		49,300	49,226	4,434	4,063	4,145	4,133	50,321	1.5
Groundwood and	Production		5,943	6,029	548	509	509	538	6,310	6.9
Thermo-Mech	Imports	A	371	351	23	37	33	31	374	25.6
	Exports		51	70	6	3	3	8	58	-29.4
	New Supply		6,263	6,309	566	543	539	561	6,625	8.3
Semi-Chemical	Production		4,358	4,363	389	340	365	396	4,470	0.8
	Imports									
	Exports									
	New Supply		4,358	4,363	389	340	365	396	4,470	0.8
MARKET WOOD PULP										
Total Market	Production		8,565	8,664	770	675	727	675	8,537	-3.6
Wood Pulp	Imports		3,471	3,340	266	260	249	263	3,116	-6.1
	Exports		5,071	5,310	311	434	508	446	5,097	-4.1
	New Supply		6,966	6,694	725	501	468	492	6,556	-4.5
Dissolving Pulp	Production		1,365	1,422	125	89	122	97	1,302	-8.5
	Imports		206	210	7	17	18	8	148	-33.0
	Exports		798	821	64	53	75	59	751	-8.7
	New Supply		774	810	68	53	65	47	699	-14.9
Paper Grades	Production		7,200	7,242	645	585	605	577	7,235	-2.7
Chemical Pulp	Imports		3,126	3,072	257	242	229	254	2,947	-2.8
	Exports		4,273	4,489	247	381	433	387	4,346	-3.2
	New Supply		6,052	5,825	654	446	401	444	5,837	-2.3
Groundwood Pulp	Production		0	0	0	0	0	0	0	0.0
and All Other	Imports		139	58	2	2	2	1	20	-69.3
	Exports		0	0	0	0	0	0	0	0.0
	New Supply		139	58	2	2	2	1	20	-69.3

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports – Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports – Department of Commerce.

NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

FIBROUS RAW MATERIALS (Thousands of tons)	YEAR		JAN	FEB	MAR R	APR P	Annual Rate	% Change From Same Period Last Year
	1988	1989	1990	1990	1990	1990	1990	
CONSUMPTION AT PAPER & PAPERBOARD MILLS								
Total	79,315	80,737	7,098	6,504	6,986	6,950	82,611	2.5
Total Wood Pulp	60,294	60,727	5,330	4,887	5,181	5,211	61,827	1.4
Waste Paper	19,021	20,010	1,768	1,617	1,805	1,739	20,783	5.8
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	172	190	192	215	202	196	196	3.2
Producers' Market Inventories	261	306	518	531	487	454	454	48.4
Consumers' Purchased Inventories #	622	596	539	542	475	431	431	-27.7
Waste Paper at Paper & Bd. Mills	1,044	1,064	1,107	1,054	1,031	1,006	1,006	-5.5
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	14	15	30	29	26	22	22	46.7

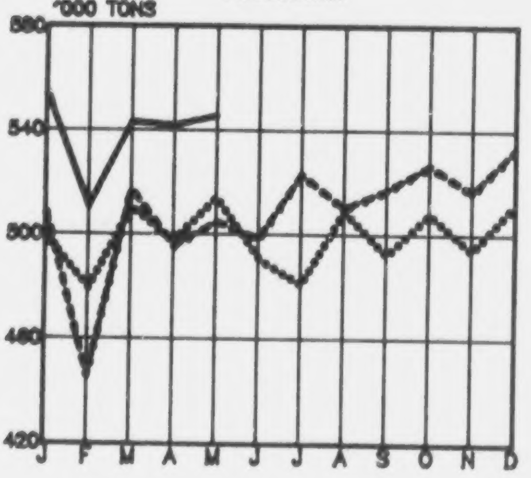
SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.

# Includes all grades of wood pulp

P – Preliminary; R – Revised; (0) – Indicates zero to five-hundred short tons

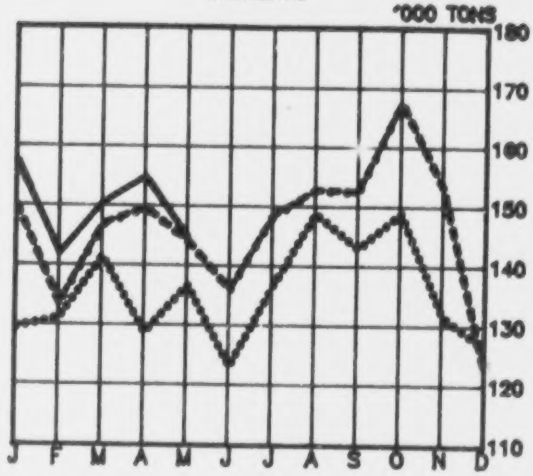
NEWSPRINT

PRODUCTION



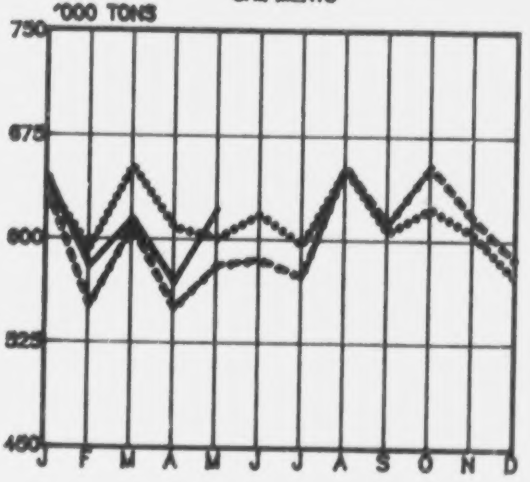
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



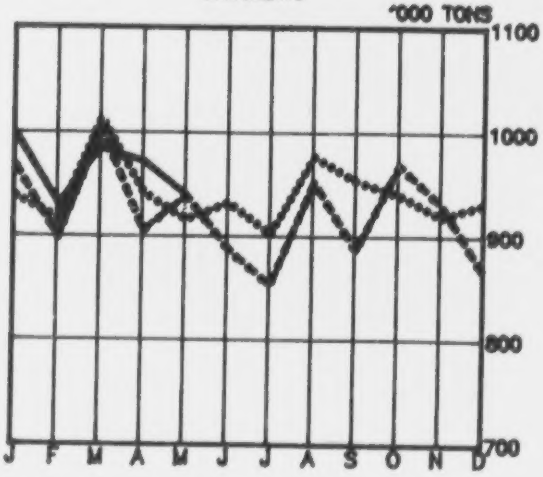
COATED PAPER

SHIPMENTS



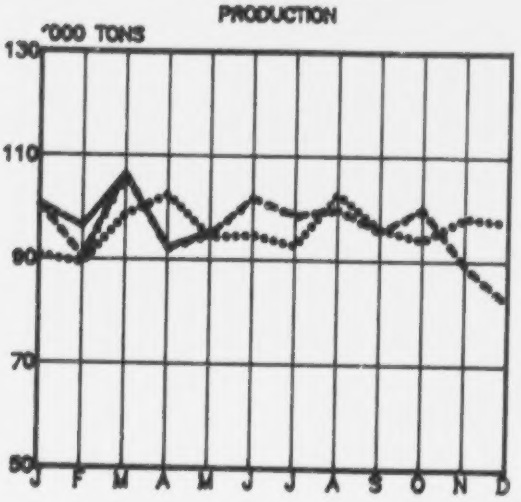
UNCOATED FREE SHEET PAPERS

SHIPMENTS



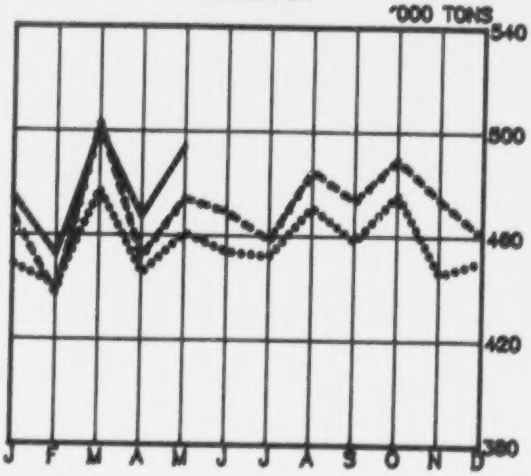
BLEACHED BRISTOLS

PRODUCTION



TISSUE PAPER

PRODUCTION



1988 •••••••• 1989 ―•―•―• 1990 ―――

FIBROUS RAW MATERIALS (Thousands of Standard (128 Cu. ft.) Cord	YEAR		JANUARY	FEBRUARY	MARCH	APRIL	ANNUAL RATE Y-T-D	% CHANGE FROM SAME PD LAST YEAR
	1988	1989	1990	1990	1990	1990	1990	
PULPWOOD								
Total U.S. - Total Receipts	95,537	99,279	8,741	8,216	8,260	8,138	100,062	4.0
- Total Consumpt	95,497	98,414	8,563	8,108	8,341	8,260	99,758	2.6
- Residues *	33,186	34,539	3,100	2,854	2,927	3,063	35,832	6.9
- Inventories	4,888	5,462	5,571	5,597	5,433	5,209	5,209	18.3
So. Atlantic - Total Receipts	31,582	31,982	2,885	2,691	2,780	2,759	33,345	5.5
- Total Consumpt	31,567	32,239	2,783	2,636	2,750	2,763	32,796	1.8
- Residues *	9,897	9,961	1,015	877	924	921	11,211	12.8
- Inventories	1,200	936	1,000	1,017	1,035	1,048	1,048	8.7
Northeast - Total Receipts	7,187	7,242	692	649	586	526	7,359	-2.3
- Total Consumpt	7,216	7,072	639	591	607	648	7,455	0.3
- Residues *	1,664	1,575	127	125	126	128	1,512	-15.0
- Inventories	572	522	553	599	549	470	470	-11.8
South Central - Total Receipts	33,751	35,840	3,057	2,988	3,113	3,061	36,591	7.5
- Total Consumpt	33,646	35,791	3,064	3,019	3,077	2,927	36,261	5.8
- Residues *	9,890	10,539	924	919	936	996	11,325	13.6
- Inventories	1,160	1,336	1,304	1,172	1,221	1,223	1,223	15.3
North Central - Total Receipts	6,866	7,020	658	660	540	499	7,071	2.4
- Total Consumpt	6,929	6,963	631	571	596	598	7,179	2.9
- Residues *	1,334	1,422	112	104	108	118	1,326	-7.1
- Inventories	839	938	999	1,081	1,030	891	891	6.3
West - Total Receipts	16,152	17,196	1,419	1,249	1,241	1,323	15,696	-2.9
- Total Consumpt	16,139	16,349	1,436	1,291	1,312	1,326	16,095	-0.5
- Residues *	10,401	11,042	922	829	833	902	10,458	0.5
- Inventories	1,117	1,730	1,715	1,728	1,595	1,577	1,677	56.0

* - Consumption of Residues in cords equivalent

SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA		IMPORTS FROM CANADA *						ANNUAL RATE Y-T-D 1990	% CHANGE FROM SAME PD LAST YEAR
		YEAR 1989		MARCH 1990		APRIL 1990			
		Tons	($000)	Tons	($000)	Tons	($000)	Tons	
Pulpwood, Roundwood (in cubic meters)		211,061	4,582	0	0	0	0	0	-100.0
Pulpwood chips		792,186	27,339	57,947	1,664	63,466	1,866	699,337	-33.5
Wood Pulp, Total	A	4,353,343	2,599,247	393,121	239,833	367,265	219,484	4,561,313	0.0
Waste Fibrous Materials, Total		164,217	31,659	12,436	2,625	11,331	2,551	145,379	-26.5
Paper, Board & Products, Total	A	10,966,631	6,104,181	965,217	546,345	961,916	537,609	11,453,275	6.1
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	A	10,807,659	5,782,419	972,637	515,312	965,671	505,961	11,299,396	6.6
Paper, Paperboard & Products	A	10,830,546	6,065,465	975,848	543,682	972,461	536,029	11,342,262	7.1
Paper & Paperboard, Only	A	10,651,373	5,743,703	963,266	512,649	956,215	503,400	11,188,374	7.8
Paper, Total	A	10,234,256	5,579,018	919,584	496,025	908,055	484,112	10,702,907	7.0
Newsprint	A	8,330,674	4,278,705	721,848	361,185	722,726	361,769	8,483,697	3.7
Printing, Writing & Rel. Pap.	A	1,579,696	1,069,263	168,730	114,674	159,661	103,713	1,873,887	24.2
Pack. & Ind. Conv. Paper		217,159	119,140	19,653	11,170	15,693	8,936	214,222	-1.7
Special Industrial Paper		49,045	80,344	4,822	4,766	4,216	4,536	55,440	82.4
Tissue Paper		57,481	51,567	4,531	4,027	5,760	5,136	55,662	15.0
Paperboard, Total		417,117	164,685	43,685	16,623	48,160	19,268	485,466	28.0
Convtd Paper&Paperbd Products		179,172	321,762	12,580	31,033	16,245	31,628	153,879	-26.1
Wet Machine Board		293	245	143	125	51	45	963	362.5
Construction Paper & Board		155,993	36,472	9,226	2,538	9,404	2,535	110,060	-45.4

NOTE: A - API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

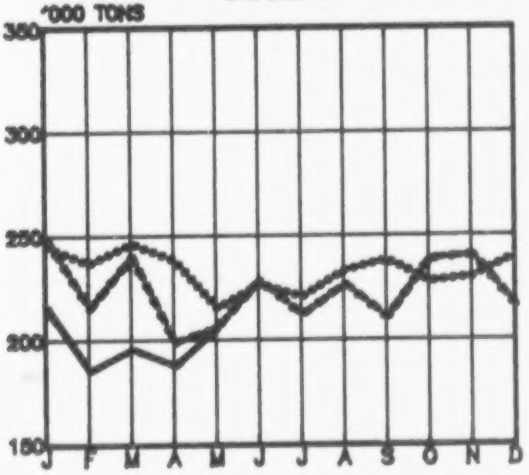
	EXPORTS TO CANADA *							
Pulpwood, Roundwood (in cubic meters)	62,892	1,120	36,639	3,649	26,328	1,093	363,247	2003.9
Pulpwood chips	28,218	1,241	24,414	1,153	12,532	667	173,173	767.4
Wood Pulp, Total	352,896	141,272	31,414	16,391	31,912	15,268	389,775	30.3
Cotton Pulp & Other Pulp	6,215	4,249	465	547	472	459	4,266	-41.6
Waste Paper	284,379	38,555	54,085	9,918	49,979	8,791	595,483	89.5
Paper, Board & Products, Total	1,083,228	763,613	102,832	113,568	99,242	108,469	1,170,073	31.3
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	754,575	497,470	77,080	70,705	74,863	66,991	859,066	43.7
Paper, Paperboard & Products	1,062,580	755,810	102,472	113,445	99,060	108,346	1,168,482	34.0
Paper & Paperboard, Only	733,907	489,666	76,920	70,582	74,681	66,866	867,475	47.9
Paper, Total	371,206	340,312	46,369	51,594	41,679	46,326	523,372	98.7
Newsprint	8,316	6,891	1,726	945	1,650	1,011	20,275	239.3
Printing, Writing & Rel. Pap.	228,021	222,055	34,795	38,029	30,908	33,784	381,749	100.9
Pack. & Ind. Conv. Paper	65,390	29,624	4,060	2,966	3,536	2,454	49,120	10.0
Special Industrial Paper	62,645	72,966	4,613	5,407	4,457	7,862	59,347	-6.0
Tissue Paper	6,634	9,767	1,154	1,226	1,128	1,214	12,882	150.0
Paperboard, Total	362,701	149,366	30,551	18,968	33,002	20,543	364,103	25.7
Convtd Paper&Paperbd Products	328,653	266,143	25,552	42,863	24,379	41,478	281,007	3.2
Wet Machine Board	1,028	660	0	0	0	0	0	-100.0
Construction Paper & Board	19,040	7,143	180	123	182	124	1,591	-90.8

SOURCE: Bureau of Census, Department of Commerce.

E - Estimate of tonnage based on square foot data

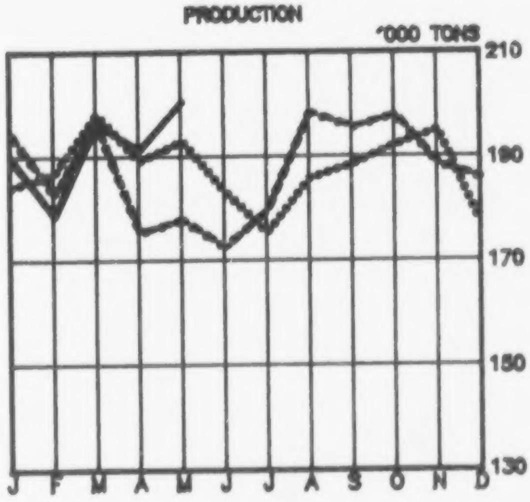
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



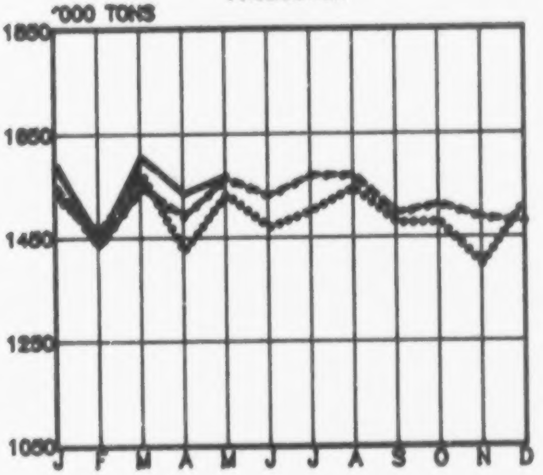
OTHER PAPER

PRODUCTION



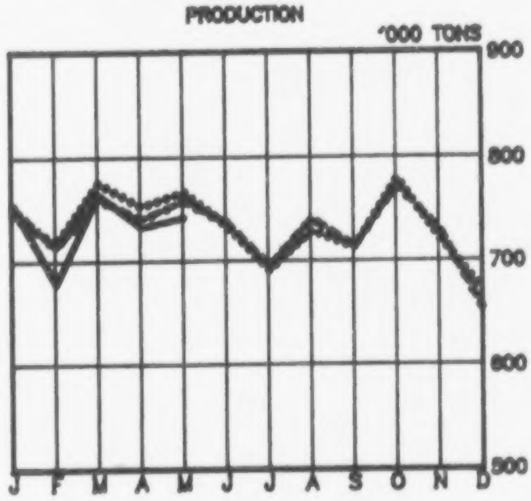
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



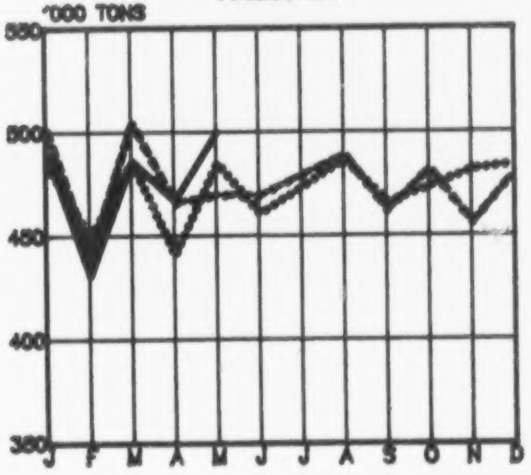
RECYCLED PAPERBOARD

PRODUCTION



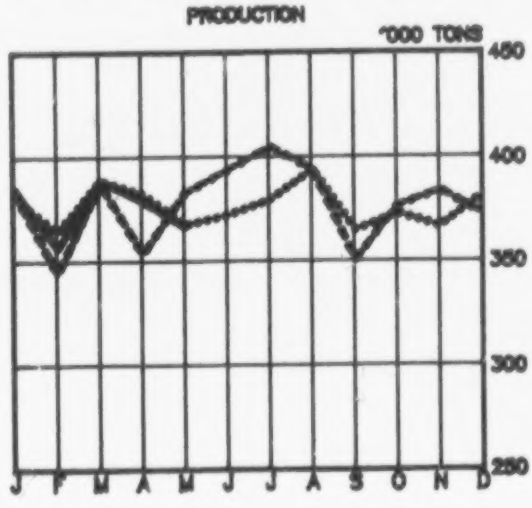
SEMICHEMICAL PAPERBOARD

PRODUCTION



SOLID BLEACHED PAPERBOARD

PRODUCTION



1988 ········ 1989 -·-·-·-· 1990 ———

PULP, PAPER AND PAPERBOARD IMPORTS		YEAR 1989		MARCH 1990		APRIL 1990		Annual Rate YTD 1990	% Change from same Period
		Tons	$000	Tons	$000	Tons	$000	Tons (1)	Last Year
Pulpwood Roundwood (cubic meters)		211,061	4,582	0	0	0	0	0	-100.0
Pulpwood Chips		806,381	27,798	68,131	1,861	63,498	1,868	700,187	-33.9
Total All Imports	A	18,288,880	11,352,263	1,603,790	994,503	1,570,837	959,686	18,610,892	1.4
Wood Pulp Total	A	5,006,100	2,980,842	429,142	262,189	417,524	249,473	5,052,346	-1.8
Waste Paper		172,678	33,187	11,741	2,234	10,322	1,924	132,723	-38.2
Other Fibrous Materials		11,254	8,618	841	494	1,491	949	16,267	5.1
Paper Board & Products Total	A	13,098,831	8,329,806	1,162,058	729,589	1,141,500	707,343	13,409,558	3.2
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	A	12,537,474	7,231,648	1,125,710	644,063	1,102,422	624,272	12,985,470	5.0
Paper Ppbd & Prds ex Cnst&WMB	A	12,910,205	8,279,503	1,151,663	726,218	1,130,748	704,100	13,285,116	4.2
Paper & Paperboard Only	A	12,347,748	7,181,244	1,115,207	640,695	1,091,670	621,030	12,881,029	6.1
Paper Total	A	11,814,263	6,900,798	1,064,168	616,009	1,036,490	593,708	12,282,146	5.7
Newsprint	A	8,553,401	4,379,613	733,222	368,618	743,710	370,643	8,877,365	3.5
Printing & Writing	A	2,732,978	1,996,141	286,087	204,120	251,287	178,878	3,086,151	12.8
Uncoated Groundwood		1,304,114	817,786	131,123	78,731	113,225	69,763	1,333,833	2.4
Coated Print & Impreg. Pap.	A	774,022	632,484	87,347	72,294	80,136	62,504	964,409	38.3
Uncoated Free Sheet	A	583,077	482,404	61,037	44,238	51,106	39,014	703,662	9.5
Thin (except Cigarette)		12,711	16,200	1,138	1,711	1,151	1,355	11,866	-14.6
Bristols		59,052	68,267	6,444	6,148	5,589	6,239	62,282	-2.8
Total Pkg & Other Paper		407,087	414,353	38,666	37,680	32,820	36,314	430,316	10.5
Unbleached Kraft Paper		239,303	116,011	20,337	10,102	17,049	8,337	227,118	-4.4
Other Pkg. & Indust. Paper		167,786	298,342	18,328	27,578	15,772	27,977	203,197	33.6
Tissue		120,797	110,691	8,194	7,591	8,702	7,875	108,316	-8.9
Paperboard, Total		533,486	280,440	51,040	24,687	56,171	27,222	578,883	16.4
Test or Containerboard		85,048	34,401	13,946	5,729	13,379	6,040	135,544	124.2
Semi-Chemical Corrugating		118,176	36,462	9,954	2,888	10,652	3,069	112,382	-12.7
Other Paperboard		330,262	209,584	27,140	16,069	31,141	18,213	330,957	5.9
Convtd Paper&Paperbd Products		562,457	1,098,259	36,346	85,523	39,077	83,070	424,064	-32.7
Paper Products, Total		470,471	924,729	28,356	70,306	29,856	66,577	326,786	-36.6
Paperboard Products, Total		91,986	173,529	7,990	15,218	9,223	16,494	97,303	-1.2
Wet machine Board		608	580	167	151	61	58	1,198	159.5
Construction Paper & Board E		189,116	49,824	10,338	3,217	10,891	3,184	123,243	-49.7
Notes									
Other: No Weight Avail. ($000)			136,624		10,842		9,710	110,774	0.3
Total Imports Incl. Other($000)			11,488,886		1,005,346		969,396	11,662,062	1.9

NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

PULP, PAPER AND PAPERBOARD EXPORTS	YEAR 1989		MARCH 1990		APRIL 1990		Annual Rate YTD 1990	% Change from same Period
	Tons	$000	Tons	$000	Tons	$000	Tons (1)	Last Year
Pulpwood, Roundwood (cubic meters)	137,617	3,475	43,039	3,946	30,237	1,364	449,703	349.2
Pulpwood Chips	4,367,811	388,164	340,739	30,476	267,113	26,196	3,827,642	-6.4
Total All Exports	18,633,606	8,603,946	1,756,341	846,423	1,710,720	814,368	19,143,362	2.7
Wood Pulp,Total	6,231,172	3,512,604	577,821	330,803	537,980	283,964	5,837,882	-7.8
Cotton Pulp and Other Pulp	122,046	100,510	8,851	8,741	5,936	6,073	100,302	-27.8
Waste and Old Paper	5,980,629	729,767	671,889	71,722	660,863	71,364	6,317,376	6.0
Paper, Board & Products,Total	6,299,799	4,261,036	667,980	436,156	616,983	443,036	6,887,963	10.9
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	5,259,733	2,982,686	507,216	301,030	532,193	311,526	5,851,821	12.7
Paper, Ppbd & Prod ex Cnst&WMB	6,263,491	4,246,277	667,114	434,825	615,086	442,277	6,878,700	11.4
Paper & Paperboard, Only	5,223,456	2,967,629	506,361	300,467	531,308	310,786	5,842,836	13.3
Paper, Total	1,465,752	1,233,527	128,662	121,724	130,164	122,147	1,517,222	8.8
Newsprint	624,796	357,361	39,731	20,233	46,760	23,826	524,964	-15.9
Printing & Writing	478,201	405,168	62,016	64,018	67,361	60,237	685,997	61.7
Uncoated Groundwood	84,056	64,798	8,024	6,987	6,340	5,849	74,004	-12.7
Clay Coated Paper	166,536	131,418	20,982	19,831	17,236	16,075	212,994	58.8
Uncoated Free Sheet	122,346	106,830	21,324	26,080	21,044	26,562	242,726	144.0
Other Printing & Writing	99,260	102,164	11,685	11,606	12,743	11,662	166,272	48.0
Total Pkg. & Other Paper	342,041	380,790	23,822	34,034	24,008	34,697	271,638	-17.1
Unbleached Kraft	125,818	60,318	10,189	5,252	10,361	5,296	110,727	-3.8
Other Pkg. & Indust. Paper	216,223	320,472	13,634	28,782	13,647	29,432	160,911	-24.4
Tissue	20,712	30,187	3,084	3,441	3,066	3,367	34,632	63.0
Paperboard, Total	3,757,704	1,734,402	377,699	178,773	401,123	188,621	4,325,616	15.1
Solid Wood Pulp	3,572,756	1,649,152	356,159	168,983	381,379	178,363	4,088,750	14.3
Total Linerboard	2,499,716	935,364	263,841	97,116	278,519	102,143	3,011,066	18.1
Bleached Kraft Linerboard	283,113	127,787	30,316	13,727	23,232	10,540	327,618	13.5
Unbleached Kraft Linerbd	2,216,603	807,578	233,525	83,388	255,288	91,603	2,683,408	18.8
Other Unbleached Kraft	246,575	113,316	17,961	9,640	27,823	16,060	271,626	14.2
Other Bleached Kraft	795,306	582,979	72,787	60,634	70,952	58,857	777,756	1.3
Semi-Chemical Corrugating	31,162	14,494	3,561	1,286	3,864	1,264	37,063	32.7
Recycled Paperboard	184,947	88,250	19,540	10,080	19,744	10,267	226,900	30.9
Convtd Paper&Paperbd Products	1,040,035	1,278,349	90,763	134,128	83,760	131,509	1,035,862	1.7
Paper Products, Total	473,436	832,806	37,251	53,944	35,361	84,066	414,489	-11.9
Paperboard Products, Total	566,601	445,543	53,513	80,184	48,429	47,464	621,373	13.4
Wet Machine Board	2,689	1,268	70	32	49	38	866	-68.2
Construction Paper & Board E	33,366	13,501	796	801	836	729	6,096	-77.6
Notes								
Other: No Weight Avail. ($000)		23,865		4,127		3,776	41,990	139.0
Total Exports Incl. Other($000)		8,627,811		850,550		818,132	9,295,162	8.9

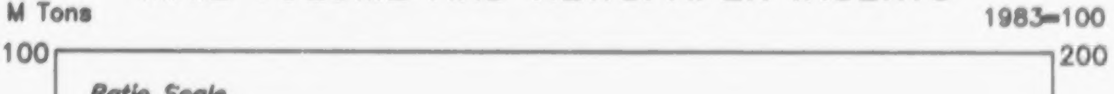
SOURCE: Bureau of Census, U.S. Department of Commerce. E – Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year–To–Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES 1982 = 100	YEAR 1988	 1989	FEB 1990	MAR 1990	APR 1990	MAY 1990	Annual Rate Y-T-D 1990	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	124.8	132.4	133.3	133.2	133.4	132.9	133.2	1.3
Pulp Paper & Products, ex. Building Grades & ex. Waste Paper *	123.8	132.0	133.0	132.9	133.2	132.8	133.0	1.5
Total Wood Pulp	136.7	157.4	160.3	158.0	154.3	152.8	157.1	1.8
Total Paper	123.2	129.6	127.5	127.4	127.8	127.9	127.7	-2.0
Writing Paper, exc. Newsprint	123.4	130.5	127.9	127.7	128.3	128.5	128.1	-2.5
Newsprint	127.6	122.5	116.1	115.3	115.1	115.0	115.5	-8.2
Total Paperboard	133.2	140.1	139.4	138.5	137.8	135.8	137.9	-1.7
Total Paper and Paperboard *	126.4	132.9	130.9	130.9	130.9	130.4	130.9	-1.9
Converted Products	123.0	131.7	134.6	134.6	135.6	135.4	134.9	3.9
Waste Paper	183.6	157.1	149.7	149.3	145.3	141.0	147.4	-7.0
All Commodities	106.9	112.2	114.4	114.2	114.0	114.5	114.4	2.6
Industrial Commodities	106.3	111.6	113.6	113.2	113.1	113.3	113.5	2.3

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

MAIL VOLUME AND NEWSPAPER INSERTS

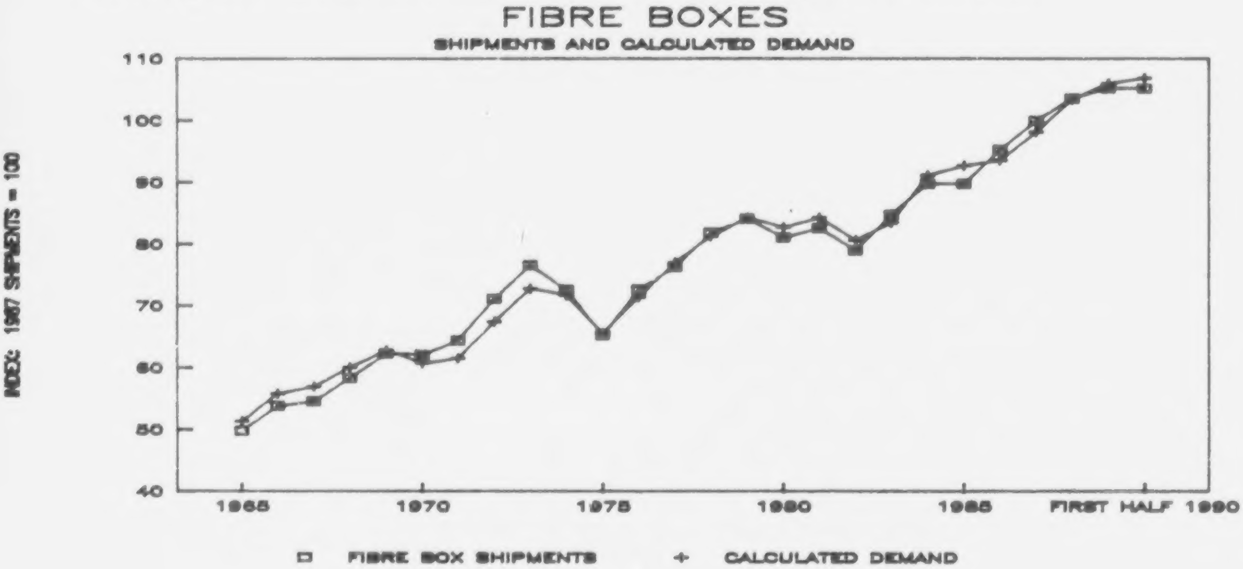


SOURCE: API Newsprint Division

production. The level of unmade orders for bleached and recycled paperboard has been flat since the end of the third quarter of 1989, though there were noticeable fluctuations from week to week.

Demand For Fiber Boxes: The Economics department analyzed the relationship between fibre box shipments and total industrial production in the 1965-1989 period. A statistical analysis showed that over 98% of the total variation in box shipments can be "explained" in terms of industrial production. (See graph).

The chart below shows the index of fiber box demand calculated from the industrial production data together with the index of actual fiber box shipments. While the long-term relationship is close, and the maximum deviation between the fitted and actual levels are in the narrow range of -3.2% (in 1984) to +5.5% (in 1972), very small differences between the fitted and actual data in any given year are not statistically significant, suggesting, rather, that supply and demand are in balance. The larger deviations, however, do suggest users are building or depleting inventories.



Source: Fiber Box Shipments: Fiber Box Association
Calculated Demand: API analysis based on the Index of Industrial Production reported by the Federal Reserve Board
Indexes calculated by API

FIBROUS MATERIALS

World shipments of chemical paper grade market wood pulp to all major consumers were down from the levels posted in the first five months of 1989. Year-to-date U.S. shipments to Western Europe, however, matched last year's pace. Shipments to the domestic market fell 6%, while Japan wood pulp imports from the U.S. slid by 29%. Shipments to other markets were curtailed by 6%. Though U.S. shipments to all markets were off by 5% so far this year, Canada, Sweden and Finland all showed relatively larger declines in their shipments totals.

The U.S. chemical paper grade market wood pulp operating rate dipped again in May, to 87%, lowering the 1990 average to 93%. This was still several percentage points higher than the rates in Canada and Sweden. There was no major reversal in the trend of producers' inventories, with the total showing an up-tick, to 23 days of supply, at the end of May.

COMMERCIAL PRINTING PAPER MARKETS

Commercial printing paper demand benefited from rapid growth in advertising expenditures during the early and mid-1980's and the subsequent stability in the last half of that decade. In particular, advertising expenditures advanced from 1.96% of nominal GNP in 1980 to 2.41% in 1986, a relative increase of 23%! Advertising's share of current-dollar GNP rose fractionally in 1987 to 2.42%, held at that rate in 1988, and then eased to 2.39% in 1989. Preliminary indications suggest that advertising markets have maintained this position during 1990.

Some 60% of commercial printing output is geared to advertising. Key advertising-related markets served by commercial printers include newspaper inserts, catalogs, and direct mail advertising materials. Newspaper inserts lineage, based on a sample drawn from four major publishing firms, declined a moderate 1.5% in 1989, following strong gains of 12.2% in 1986, 8.6% in 1987, and 4.6% in 1988. Seasonally-adjusted inserts advanced significantly during the fourth quarter of 1989 and moved further upward during the initial three months of 1990 (see chart on page 10). An estimated 2.2 million tons of communications paper (mainly coated papers, uncoated groundwood and newsprint) were used to produce inserts in 1989.

Third class mail, largely direct mail advertising, is another important advertising-related market for commercial printers. Although third class mail volume typically declines or levels off immediately after a rate hike and then returns to a positive growth path approximately two quarters later, its volume remained essentially level after the April 1988 postage rate increase (see chart on page 10). Other factors, such as generally stable advertising markets and possible market saturation with respect to cents-off-coupons, may have also constrained growth.

In addition to the items that were mentioned above, commercial printers also produce labels and wraps, financial documents, and a wide range of miscellaneous products, such as calendars, tickets, maps, cards, and stamps. The Commerce Department reports that inflation-adjusted shipments of labels and wraps was up a healthy 4.5% in 1989, with much of the expansion attributable to pressure sensitive labels used on plastic containers. Total inflation-adjusted shipments of commercial printers gained 2.4% in 1989, a bit slower than the 4.8% rise posted in 1988.

INDUSTRY FACT SHEET
MONTHLY STATISTICAL SUMMARY INSERT
VOL. 68, NO. 5
JUNE, 1990

PRODUCTION (000 TONS)

	(P) MAY 1990	(R) APR 1990	MAY 1989	FIRST 5 MONTHS 1990	 1989	% CHANGE YR TO DATE 1990/1989
PAPER GRADES						
Newsprint	545	541	504	2,692	2,468	9.1
Printing & Writing	1,835	1,820	1,793	9,262	9,010	2.8
Uncoated Groundwood (s)	144	155	144	748	723	3.5
Coated Paper (s)	621	567	580	3,024	2,920	3.5
Uncoated Free Sheet Paper (s)	938	971	938	4,818	4,707	2.3
Thin Paper (s)	22	23	22	114	108	6.0
Cotton Fiber Paper (s)	14	13	14	69	70	-0.9
Bleached Bristols (s)	95	92	95	489	483	1.4
Tissue Paper	494	467	474	2,386	2,330	2.4
Total Pkg & Other Paper	406	378	384	1,944	2,035	-4.5
Unbl. Kraft Paper (s)	206	187	206	989	1,109	-10.8
Other Paper	200	191	178	955	926	3.2
TOTAL PAPER	3,279	3,207	3,154	16,283	15,843	2.8
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,683	1,627	1,681	8,248	8,107	1.7
Unbleached Kraft Linerboard	1,567	1,533	1,560	7,733	7,568	2.2
Other Unbl. Kraft Paperboard	116	94	121	515	539	-4.3
Semichemical Paperboard	499	466	469	2,370	2,378	-0.3
Bleached Paperboard	366	378	383	1,871	1,849	1.2
Recycled Paperboard	741	731	757	3,664	3,720	-1.5
TOTAL PAPERBOARD	3,289	3,202	3,289	16,154	16,053	0.6
TOTAL PAPER AND PAPERBOARD	6,568	6,409	6,444	32,437	31,896	1.7

WOOD PULP (ALL GRADES)	APR 1990	MAR 1990	APR 1989	FIRST 4 MONTHS 1990	 1989	% CHANGE YR TO DATE 1990/1989
Dissolving & Special Alpha	98	123	106	434	476	-8.7
Bleached Sulfite) Unbleached Sulfite)	133	127	134	524	530	-1.2
Bleached & Semi-Bl. Sulfate	2,287	2,297	2,288	9,143	9,086	0.6
Unbleached Sulfate	1,802	1,852	1,785	7,297	7,206	1.3
Semichemical	396	365	366	1,490	1,479	0.8
Groundwood & Thermomechanical	536	508	511	2,103	1,968	6.9
TOTAL PULP DIVISION DATA	5,253	5,272	5,189	20,992	20,745	1.2

(s) - Shipments
P - Preliminary
R - Revised

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

INDUSTRY DATA JUNE 30, 1990	1988	1989	1990	1990 R	1990 P	AN RATE Y-T-D 90	% CH SAME PD 89
PAPER AND PAPERBOARD — Tons (000)			Mar	Apr	May		
Total Production (API)...............: excluding :..............................	76,488	76,846	6,681	6,409	6,588	77,849	1.7
Total Seasonally Adjusted..........: construction :..............................			6,401	6,537	6,482	77,712	1.7
Imports (Including Products).......: and wet :.....E..............................	12,788	12,810	1,152	1,131	1,141	13,388	3.1
Exports (Including Products).......: machine :.....E..............................	5,580	6,384	587	615	608	6,982	9.5
Apparent Consumption...............: grades :..............................	83,694	83,292	6,966	7,053	7,025	84,253	1.5
Paper Production % Tonnage Capacity..............	95.4 g	92.4	92.6	93.7	91.1	93.2	-
Paperboard Production % Tonnage Capacity..............	94.5 g	95.5	94.1	95.4	92.0	93.3	-
PAPER, PAPERBOARD AND PRODUCTS			Feb	Mar	Apr		
Imports.....:Including Construction and :..............................	13,110	13,101	1,043	1,162	1,142	13,410	3.2
Exports.....: WMB Grades (excl. HPB) :..............................	5,691	6,300	500	598	616	6,888	10.9
MARKET WOOD PULP PRODUCTION – Tons (000)..............	8,885	8,884	676	727	675	8,837	-5.6
TOTAL WOOD PULP PRODUCTION – Tons (000)..............	61,161 f	61,880 f	4,998	5,272	5,253	62,976	1.2
WOOD PULP IMPORTS – TONS (000)..............	5,038	5,005	425	429	418	5,052	-1.8
WOOD PULP EXPORTS – TONS (000)..............	5,838	6,231	410	578	538	5,838	-7.9
RAW MATERIALS CONSUMPTION – Tons (000)							
PAPER AND BOARD MILLS....: excluding :..............................			Feb	Mar	Apr		
Wood Pulp..........................: consumption for :..............................	60,294	60,727	4,887	5,181	5,211	61,827	1.4
Waste Paper.......................: construction & :..............................	19,021	20,010	1,617	1,805	1,739	20,783	5.8
TOTAL..........................: WMB grades :..............................	79,315	80,737	6,504	6,986	6,950	82,610	2.5
PULPWOOD CONSUMPTION Cords (000) Amer. Pulpwd. Assn	95,487	98,414	8,108	8,341	8,260	99,788	2.6
EMPLOYMENT (000)			Mar	Apr	May		
Paper and Allied Products.........Total..............................	692.6	697.2	693.9	694.9	696.3	694.4	0.3
Pulp, Paper and Board Mills........Total.....E..............................	247.2	247.1	246.0	246.1	246.3	246.4	0.6
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			Mar	Apr	May		
Paper and Allied Products..............................	11.66	11.93	12.13	12.27	12.27	12.18	3.0
Pulp, Paper Mills......E..............................	14.31	14.71	14.99	15.25	15.15	15.08	3.6
Paperboard Mills.......E..............................	14.49	14.76	14.97	15.18	15.31	15.08	3.6
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1989 Q3	1989 Q4	1990 Q1		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	11.36	15.69	15.82	17.69	18.00	17.72	12.9
INDEX OF OUTPUT PER MAN-HOUR (1977=100)			Mar	Apr	May		
:IN PULP, PAPER :...Production Workers..............................	146.0	146.6	149.2	146.5	147.1	148.3	0.2
:AND BOARD MILLS:...All Employees..............................	142.9	143.5	145.3	144.1	144.2	145.1	0.2
PAPER AND ALLIED PRODUCTS (Million $)			Feb	Mar	Apr		
Industry Shipments (Dept. of Commerce)*..............................	127,718	130,501	10,787	10,965	10,801	129,699	-0.6
Pulp, Paper and Paperboard*..............................	57,177	57,700	4,818	4,727	4,559	56,305	-5.2
Inventories (End of Period) - Total Industry*..............................	12,085	12,571	12,699	12,649	12,651	12,651	5.9
Pulp, Paper and Paperboard*..............................	4,325	4,980	4,979	4,954	5,000	5,000	8.6
PAPER AND ALLIED PRODUCTS COMPANIES (Million $)			1989 Q3	1989 Q4	1990 Q1		
Sales (Corporations Only)..............................	107,221	113,573	28,456	28,661	28,534	114,136	3.4
Earnings (Corporations Only)..............................	8,081	7,047	1,872	1,160	1,389	5,556	-30.5
Depreciation (Corporations Only)..............................	4,625	5,010	1,280	1,301	1,347	5,388	12.3
Net Worth (Corporations Only)..............................	42,940	46,642	46,246	45,642	48,519	48,519	10.7
PRICE INDEXES (Bureau of Labor Stats)1982=100			Mar	Apr	May		
Pulp, Paper & Products, ex. Building Grades..............................	124.8	132.4	133.2	133.4	132.9	133.2	1.3
Wood Pulp..............................	136.7	157.4	158.0	154.3	152.8	157.1	1.8
Waste Paper..............................	183.6	157.1	149.3	140.3	141.0	147.4	-7.0
Paper..............................	123.2	129.6	127.4	127.8	127.9	127.7	-2.0
Paperboard..............................	133.2	140.1	138.5	137.8	135.8	137.9	-1.7
PAPER DEMAND (INDEXED: 1987=100)			Mar	Apr	May		
Total Paper Production *..............................	103.9	103.4	103.5	108.4	107.4	106.1	2.8
Paper New Supply *..............................	103.8	102.2	103.9	108.5	106.7	106.1	2.9
Demand Indicators - (Weighted Average) *..............................	103.8	108.1	110.4	110.2	110.6	110.4	2.5
Production of Nondurable Goods.........*....(21.2%)..............................	103.6	108.4	107.3	107.8	107.9	107.8	1.5
Disposable Income.........................*....(23.9%)..............................	104.4	108.6	110.8	110.8	110.6	110.5	2.7
Total Printing and Publishing...............*....(54.9%)..............................	103.6	108.6	111.5	110.9	111.6	111.4	2.8
PAPERBOARD DEMAND (INDEXED: 1987=100)							
Total Paperboard Production *..............................	101.7	102.6	103.2	104.7	102.2	103.0	0.5
Production for Domestic Use	102.0	102.7	101.4	104.3	100.9	101.8	-0.5
Demand Indicators - (Weighted Average) *..............................	104.7	107.2	107.9	107.9	108.5	107.8	0.4
Production of Consumer Goods..........*....(62.06%)..............................	104.0	106.6	107.6	107.4	108.0	107.2	0.5
Production of Equipment..................*....(5.75%)..............................	107.5	112.3	114.9	114.8	116.3	114.2	2.5
Production of Materials...................*....(32.19%)..............................	105.6	107.4	107.2	107.5	108.0	107.2	-0.2
MARKET DATA			Feb	Mar	Apr		
Consumption by Publishers - Tons (000)..............................	13,487	13,493	1,025	1,167	1,141	13,195	0.2
Newspaper Pub. and Printing Empl. Total(000)..............................	475	478	481	481	480	481	1.0
Magazine Advertising Pages (PIB, Inc.)	172,580	178,476	13,850	15,144	16,786	168,536	-3.2
Wholesalers Sales and Inventories (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales..............................	52,377	56,803	3,936	4,536	4,185	51,147	-5.8
Inventories (End of Period)..............................	4,436	4,508	4,050	4,103	4,021	4,021	-12.1
FIBRE BOX DATA (Fibre Box Association)			Mar	Apr	May		
Fibre Box Shipments (Million square feet)..............................	308,507	313,400	26,880	26,622	27,219	317,544	0.9
Container'bd Inventory at Mill & Plant (000 Tons)..............................	2,553	2,589	2,628	2,593	2,535	2,536	1.6
RETAIL TRADE (Billion $)			Mar	Apr	May		
Total Retail Sales *..............................	1,622	1,711	149.3	147.9	146.8	1,785	5.8
Nondurable Goods Stores Sales *..............................	986	1,062	94.6	94.2	93.7	1,130	6.2
GENERAL ECONOMIC DATA			Mar	Apr	May		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1987 = 100)*..............................	105.4	108.1	109.0	109.0	109.7	109.7	0.7
PRODUCER PRICES (ALL COMMODITIES) (INDEX 1982=100)..............................	108.9	112.2	114.2	114.0	114.5	114.4	2.5
CONSUMER PRICES (ALL ITEMS–URBAN CON.) (1982–4=100)..............................	118.3	124.0	128.7	128.9	129.2	128.4	5.0
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$)			1989 Q3	1989 Q4	1990 Q1		
G.N.P. or Expenditure - Current $..............................	4,881	5,234	5,281	5,340	5,431	5,431	6.2
G.N.P. or Expenditure - 1982 $..............................	4,024	4,144	4,163	4,174	4,188	4,188	2.0
PAPER AND PAPERBOARD CONSUMPTION - POUNDS PER CAPITA	677	687				673	

f - Wood Pulp Prod exc dsl., explo & scr. g - Adj for holiday shutdowns R - Revised E - Last month estimated by API Y - Full year estimated by Dep't of Commerce * Seasonally Adjusted

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol.68 No.7 JULY 1990

PAPER AND PAPERBOARD PRODUCTION RATE STRENGTHENS

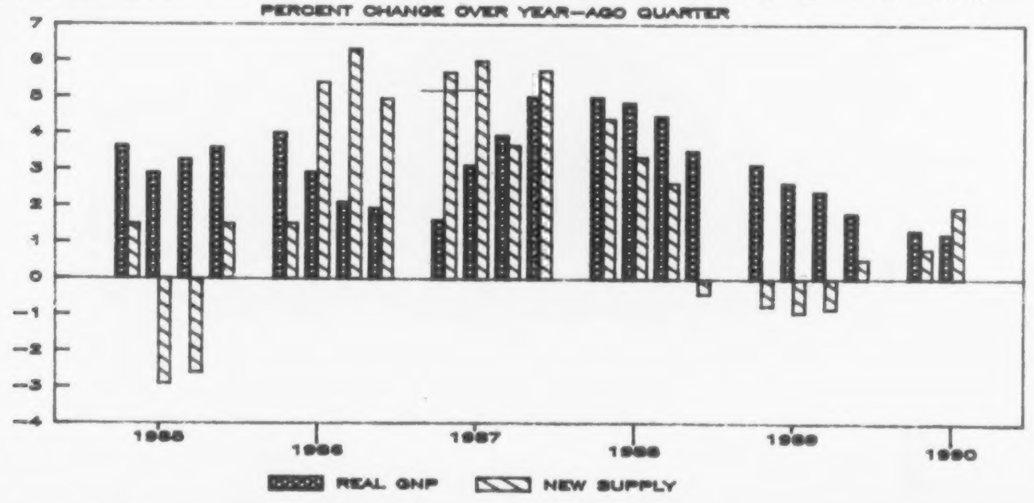
Preliminary data indicate that the seasonally adjusted rate of paper and paperboard production in the second quarter of 1990 reached a record high of 78.2 million tons per year, with the monthly rates very close to the average. This was 1% higher than the preceding quarter and 2.5% above the second quarter 1989 rate.

The U.S. Department of Commerce recently revised the real gross national product (real GNP) figures from 1987 forward. It appears that the overall United States economy has not been growing as rapidly as previously reported. The flat trend in paper and paperboard production and consumption evident since the start of 1988 now appears to be more consistent with historical industry performance during periods of economic slowdown.

The modest second quarter 1990 real GNP gain -- 1.2% per year from the previous quarter -- was supported by inventory increases. The strength in second quarter paper and paperboard demand may have been influenced by this.

The chart below repeats the one presented here last month, using the new real GNP data and extending to the second quarter. New supply of paper and paperboard in the second quarter of 1990, which includes an estimate of international trade of industry products in June, rose faster than real GNP relative to its year-ago quarter for the first time since the fourth quarter of 1987.

REAL GNP & NEW SUPPLY OF PAPER & PA'BRD



Copyright © 1990 American Paper Institute 260 Madison Avenue New York, N.Y. 10016

The gains in total production reflected strength in both paper and paperboard. The second quarter 1990 paper production rate was up 0.9% from the first quarter and 4% above the year-ago level. Paperboard also moved up about 1% from its first quarter level, but showed that same percentage increase from its year-ago quarter.

Paper: Total paper production in June 1990 was 3.1% above its June 1989 level; the year-to-date total remained 2.8% higher than in the corresponding 1989 period. With the exception of the packaging grades, the vitality in paper demand was well distributed. Newsprint production continues to dominate -- up 9% from the first six months of 1989 to the first six months of 1990.

Demand for the printing and writing grades is illuminated by the healthy advances of shipments and of new and unfilled orders. Only unfilled orders for uncoated groundwood papers in June were modestly below their June 1989 level. At the same time, unfilled orders for uncoated free sheet papers rose 58%. The smaller printing and writing grades -- bleached bristols and thin papers -- were also ahead of their year-ago rates.

Production of tissue papers in June held firmly at its record pace while packaging paper production advanced fractionally.

Paperboard: Total paperboard production exceeded its year-ago volume by 0.7% in the first half of 1990, largely the result of advances in kraft paperboard production for export (see page 11). The industry's recycling efforts appear to have turned production of recycled corrugating medium for domestic use upward, after a modest downturn in 1989.

Across the board declines in all grades of folding boxboard for domestic use cancelled the impact of the first-half gains in production of milk carton stock and set-up boxboard on the boxboard total. The drop in "other boxboard" production was largely the result of a slide in gypsum wallboard production. The 20% year-to-date surge in boxboard production for export supported total boxboard production.

Total containerboard production in the first half of 1990 moved above its level in the comparable 1989 period by 1.1% reflecting, in part, a shift toward export demand. Containerboard production for domestic use held close to the pace it displayed last year. The Fiber Box Association reported first-half 1990 box shipments up 0.5% from their year-ago level. Inventories of containerboard at mills and plants have shown little change over the past 12 months; the June 1990 level was equivalent to 5.3 weeks of supply, compared to 5.5 a year earlier.

FIBROUS MATERIALS

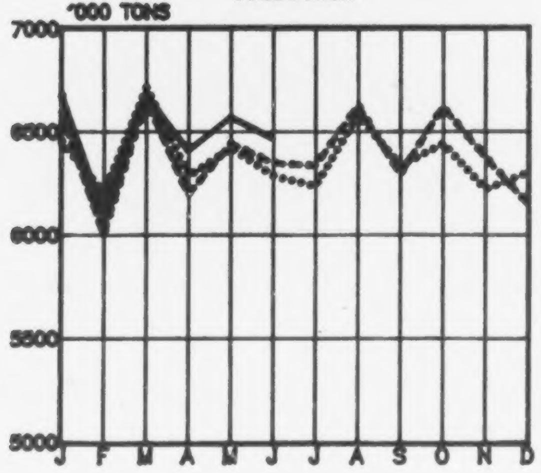
At an annual rate of almost 21 million tons, waste paper consumption at paper and paperboard mills (excluding the construction grades) in the first five months of 1990 ran 5.8% ahead of its year-ago level, compared to a 1.5% increase in the use

PAPER AND PAPERBOARD STATISTICS PRODUCTION, SHIPMENTS AND ORDERS (Thousands of Tons)	YEAR		MAR	APR	MAY R	JUNE P	Annual Rate Y-T-D	% Change From Same Period
	1988	1989	1990	1990	1990	1990	1990	Last Year
PAPER								
Newsprint – Production	5,982	6,088	543	541	545	539	6,462	8.9
– Shipments	5,969	6,079	543	544	553	536	6,479	10.2
Printing & Writing: Total Shipments	21,857	21,540	1,895	1,820	1,835	1,793	22,111	2.8
Groundwood Paper – Shipments	1,624	1,754	150	155	144	145	1,785	4.0
– New Orders	1,654	1,784	126	129	163	177	1,812	5.7
– Unfilled Orders	208	211	186	147	167	194	194	-2.8
Coated Papers – Shipments	7,359	7,194	614	567	621	603	7,255	3.5
– New Orders	7,412	7,262	643	656	615	650	7,410	5.4
– Unfilled Orders	751	822	658	747	747	780	780	5.9
Unctd Free Sheet – Shipments	11,277	11,043	983	971	938	910	11,454	2.4
– New Orders	11,298	11,132	1,035	990	987	989	11,812	8.7
– Unfilled Orders	790	784	765	757	816	881	881	57.9
Thin Papers – Shipments	281	245	26	23	22	22	273	6.1
Cotton Fiber Paper – Shipments	167	157	15	13	14	13	165	-0.9
Bleached Bristols – Shipments	1,150	1,148	106	92	95	100	1,179	0.9
Tissue Paper – Production	5,476	5,636	500	467	494	479	5,729	2.4
Total Packaging & Other Paper	5 047	4,925	392	379	406	394	4,676	-4.0
Unbl. Kraft Paper – Shipments	2,800	2,681	196	187	206	208	2,393	-10.5
Other Paper – Production	2,247	2,243	196	191	201	185	2,283	3.9
TOTAL PAPER PRODUCTION – UNADJUSTED	38,363	38,189	3,329	3,207	3,279	3,205	38,978	2.8
TOTAL PAPER PRODUCTION – SEAS ADJ			3,182	3,271	3,303	3,252	39,138	2.9
PAPERBOARD – PRODUCTION								
Containerboard	26,225	26,428	2,302	2,200	2,282	2,251	26,743	1.1
Cont'bd For Dom Use for Fibre Boxes	23,563	23,752	2,039	1,977	2,013	1,997	23,739	0.0
Total Linerboard	16,177	16,399	1,409	1,359	1,371	1,390	16,329	-0.4
Unbleached Kraft	15,601	15,833	1,366	1,325	1,333	1,354	15,901	0.5
Solid Bleached	170	178	14	11	9	10	131	-27.0
Recycled	407	388	28	24	30	26	297	-24.5
Corrugating Medium	7,351	7,339	629	618	640	607	7,401	1.1
Semichemical	5,528	5,554	472	456	483	450	5,514	-0.5
Recycled	1,823	1,785	157	162	158	156	1,887	6.1
Container Chip and Filler	35	14	1	0	1	0	9	-47.1
Other Containerboard for Dom Use	320	307	26	22	33	22	289	-7.1
Containerboard for Export	2,342	2,369	237	201	236	231	2,714	13.4
Boxboard	11,878	12,029	1,050	1,002	1,010	1,012	12,096	-0.4
Boxboard for Packaging for Dom Use	7,014	7,076	614	577	595	586	7,049	-1.5
Folding Boxboard	5,293	5,370	466	415	442	432	5,244	-3.2
Solid Bleached	2,017	1,980	165	147	159	156	1,881	-4.8
Unbleached Kraft	924	987	86	72	83	75	937	-5.6
Recycled	2,353	2,403	215	196	200	201	2,427	-0.9
Set-up Boxboard for Dom Use	279	288	27	29	27	25	323	8.8
Milk Carton & Food Service Dom Use	1,442	1,419	122	133	126	129	1,482	2.9
Other Boxboard for Domestic Use	4,075	4,089	348	338	341	346	4,062	-2.5
Boxboard for Export	789	863	87	87	75	80	985	20.0
Paperboard Production by Furnish	38,103	38,456	3,352	3,202	3,292	3,262	38,839	0.7
Unbleached Kraft	19,140	19,490	1,715	1,627	1,683	1,681	19,859	1.9
Semichemical	5,664	5,691	485	466	499	467	5,675	-0.3
Solid Bleached Kraft	4,511	4,521	388	378	368	376	4,499	0.3
Recycled	8,788	8,754	763	731	742	738	8,806	-1.2
Paperboard Production for Export	3,132	3,232	324	288	311	311	3,697	15.0
Unbleached Kraft	2,296	2,363	238	208	235	229	2,731	15.4
Semichemical	136	138	13	10	16	17	161	7.9
Bleached Kraft	628	693	69	65	56	61	756	14.4
Recycled	72	38	4	4	5	4	49	24.3
TOTAL PAPERBOARD PRODUCTION – UNADJ	38,103	38,456	3,352	3,202	3,292	3,262	38,839	0.7
TOTAL PAPERBOARD PROD – SEAS ADJ			3,220	3,266	3,191	3,258	38,651	0.6
PAPER AND PAPERBOARD – UNADJ	76,466	76,646	6,681	6,409	6,571	6,467	77,817	1.7
PAPER AND PAPERBOARD – SEAS ADJ			6,401	6,537	6,495	6,511	77,789	1.7

R – Revised P – Preliminary Seas. Adj. – Seasonally Adjusted Unadj – Not Seasonally Adjusted

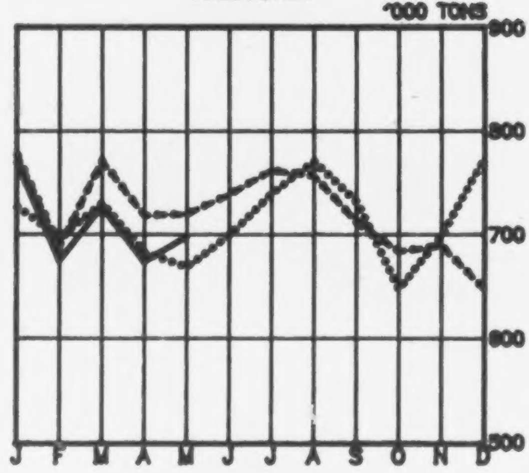
TOTAL PAPER AND PAPERBOARD

PRODUCTION



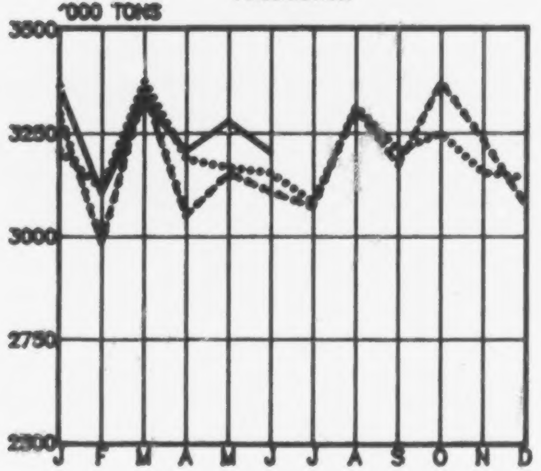
MARKET WOOD PULP

PRODUCTION



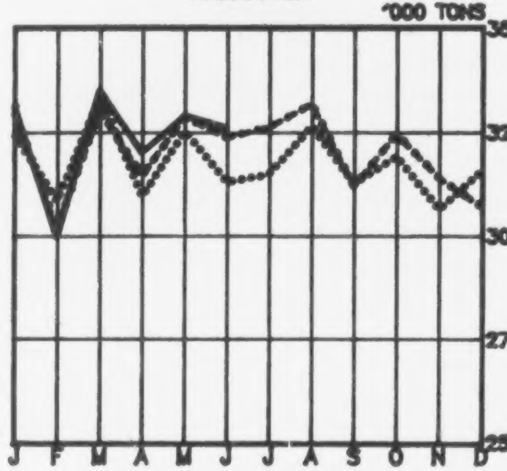
TOTAL PAPER

PRODUCTION



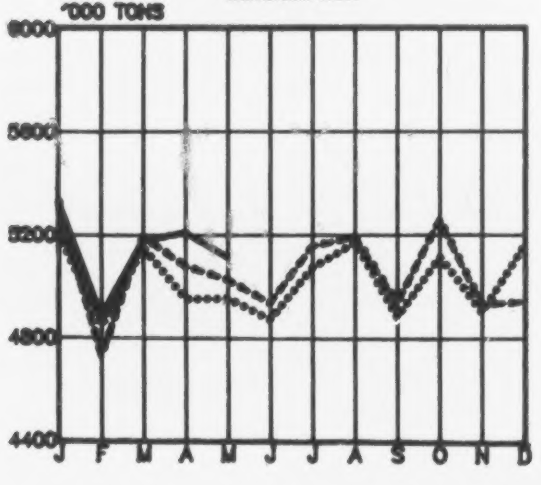
TOTAL PAPERBOARD

PRODUCTION



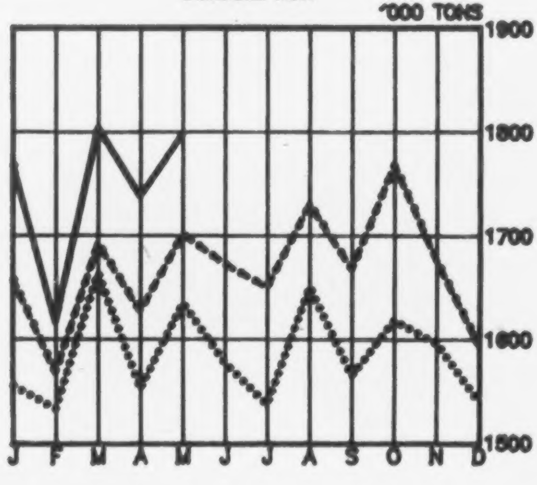
TOTAL WOOD PULP

CONSUMPTION



TOTAL WASTE PAPER

CONSUMPTION



1988 ········ 1989 – – – – 1990 ———

WOOD PULP STATISTICS (Thousands of Tons)		YEAR 1988	YEAR 1989	FEB 1990	MAR 1990	APR R 1990	MAY P 1990	Annual Rate Y-T-D 1990	% Change From Same Period Last Year
TOTAL WOOD PULP									
Total Wood Pulp	Production	61,161	61,998	4,988	5,272	5,254	5,164	62,778	1.2
	Imports A	5,038	5,005	425	429	418	428	5,069	-0.9
	Exports	5,528	6,231	410	578	538	443	5,733	-8.7
	New Supply	60,671	60,772	5,002	5,123	5,134	5,149	62,114	2.1
Dissolving Pulp	Production	1,367	1,425	89	123	98	103	1,289	-8.1
	Imports	248	284	20	23	15	27	246	-13.0
	Exports	865	836	52	71	71	64	757	-8.0
	New Supply	751	873	57	74	42	66	778	-9.8
Paper Grades Chemical Pulp	Production	49,493	50,181	4,050	4,275	4,220	4,158	50,690	0.8
	Imports A	4,419	4,370	368	373	371	368	4,446	-2.0
	Exports	4,612	5,325	355	503	460	377	4,924	-8.5
	New Supply	49,300	49,226	4,063	4,145	4,131	4,150	50,213	1.6
Groundwood and Thermo-Mech	Production	5,943	6,029	509	509	540	522	6,305	6.6
	Imports A	371	351	37	33	31	32	376	28.3
	Exports	51	70	3	3	8	2	52	-28.8
	New Supply	6,263	6,309	543	539	563	552	6,630	8.1
Semi-Chemical	Production	4,358	4,363	340	365	397	381	4,494	2.1
	Imports								
	Exports								
	New Supply	4,358	4,363	340	365	397	381	4,494	2.1
MARKET WOOD PULP									
Total Market Wood Pulp	Production	8,565	8,664	675	727	674	698	8,503	-3.6
	Imports	3,471	3,340	260	249	263	257	3,110	-8.3
	Exports	5,071	5,310	434	508	446	422	5,090	-4.3
	New Supply	6,966	6,694	501	468	491	533	6,523	-5.3
Dissolving Pulp	Production	1,365	1,422	89	122	97	103	1,288	-7.9
	Imports	206	210	17	18	8	25	178	-11.6
	Exports	798	821	53	75	59	60	745	-6.6
	New Supply	774	810	53	65	47	67	721	-10.2
Paper Grades Chemical Pulp	Production	7,200	7,242	585	605	577	595	7,215	-2.7
	Imports	3,126	3,072	242	229	254	231	2,911	-6.7
	Exports	4,273	4,489	381	433	387	362	4,345	-4.0
	New Supply	6,052	5,825	446	401	444	464	5,782	-3.9
Groundwood Pulp and All Other	Production	0	0	0	0	0	0	0	0.0
	Imports	139	58	2	2	1	2	21	-70.3
	Exports	0	0	0	0	0	0	0	0.0
	New Supply	139	58	2	2	1	2	21	-70.3

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports – Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports – Department of Commerce.

NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

FIBROUS RAW MATERIALS (Thousands of tons)	YEAR 1988	YEAR 1989	FEB 1990	MAR 1990	APR R 1990	MAY P 1990	Annual Rate 1990	% Change From Same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS								
Total	79,315	80,737	6,504	6,986	6,950	6,917	82,692	2.5
Total Wood Pulp	60,294	60,727	4,887	5,181	5,212	5,118	61,748	1.5
Waste Paper	19,021	20,010	1,617	1,805	1,739	1,799	20,945	5.8
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	172	193	215	202	196	184	184	13.8
Producers' Market Inventories	261	342	531	487	455	451	451	48.1
Consumers' Purchased Inventories #	622	519	542	475	431	437	437	-30.5
Waste Paper at Paper & Bd. Mills	1,044	1,085	1,054	1,031	1,006	1,016	1,016	-4.5
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	14	19	29	26	22	22	22	46.7

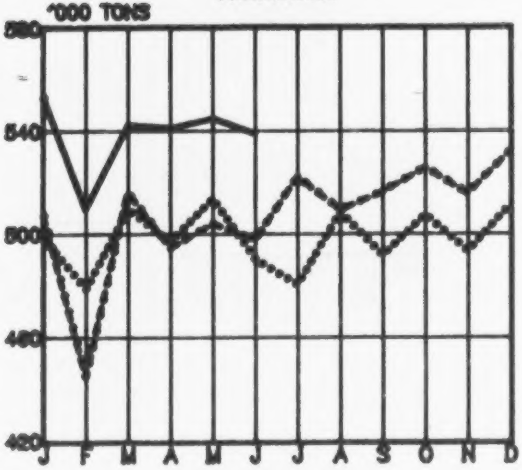
SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.

Includes all grades of wood pulp

P – Preliminary; R – Revised; (0) – Indicates zero to five-hundred short tons

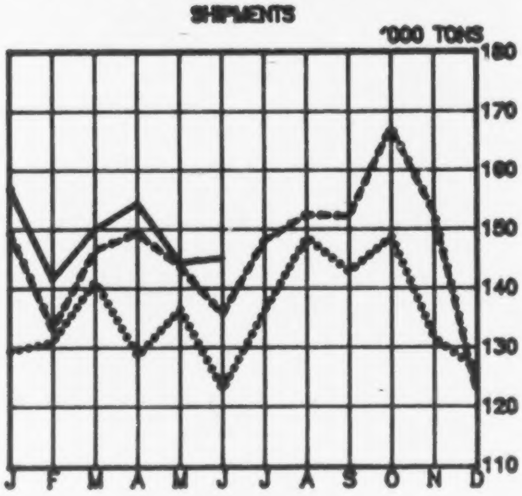
NEWSPRINT

PRODUCTION



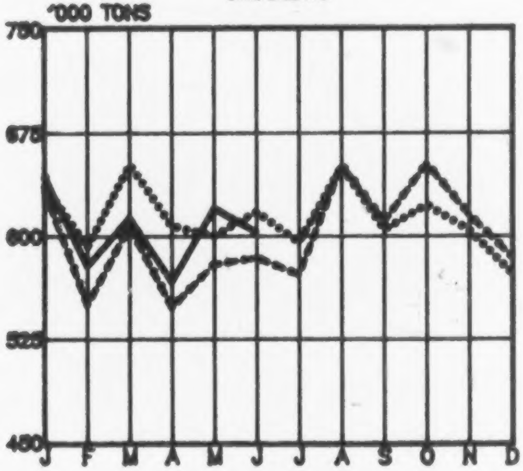
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



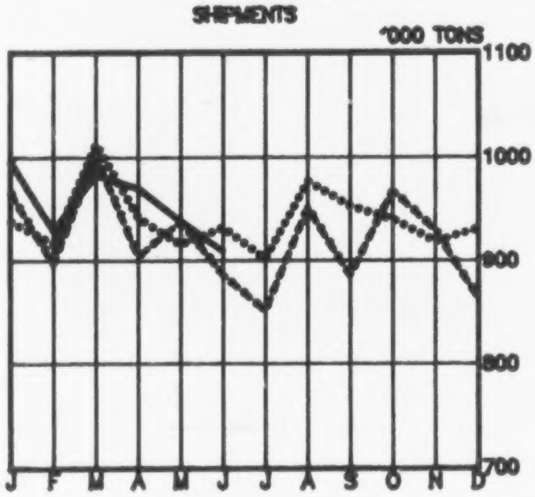
COATED PAPER

SHIPMENTS



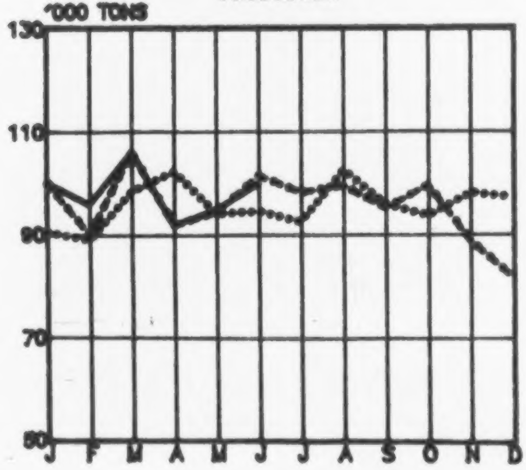
UNCOATED FREE SHEET PAPERS

SHIPMENTS



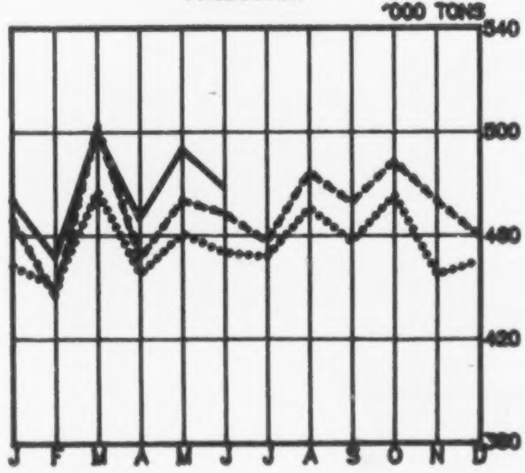
BLEACHED BRISTOLS

PRODUCTION



TISSUE PAPER

PRODUCTION



1988 ········· 1989 - - - - - 1990 ———

FIBROUS RAW MATERIALS (Thousands of Standard (128 Cu. ft.) Cord	YEAR		FEBRUARY	MARCH	APRIL	MAY	ANNUAL RATE Y-T-D	% CHANGE FROM SAME PD LAST YEAR
	1988	1989	1990	1990	1990	1990	1990	
PULPWOOD								
Total U.S. – Total Receipts	96,537	99,279	8,215	8,260	8,138	8,014	99,283	3.2
– Total Consumpt	95,497	96,414	8,108	8,341	8,260	8,113	99,300	2.1
– Residues *	33,186	34,539	2,854	2,927	3,063	2,996	35,856	6.4
– Inventories	4,888	5,462	5,597	5,433	5,209	5,177	5,177	19.8
So. Atlantic – Total Receipts	31,582	31,982	2,691	2,780	2,759	2,852	33,041	4.4
– Total Consumpt	31,567	32,239	2,636	2,750	2,763	2,863	32,828	1.4
– Residues *	9,897	9,961	877	924	921	890	11,106	13.0
– Inventories	1,200	936	1,017	1,036	1,048	1,077	1,077	14.2
Northeast – Total Receipts	7,187	7,242	649	586	526	510	7,111	-1.7
– Total Consumpt	7,216	7,072	591	607	648	536	7,250	-1.2
– Residues *	1,664	1,575	125	126	126	120	1,496	-13.6
– Inventories	572	522	599	549	470	413	413	-1.2
South Central – Total Receipts	33,751	36,840	2,966	3,113	3,061	3,012	36,502	6.3
– Total Consumpt	33,646	35,791	3,019	3,077	2,927	2,995	36,197	4.2
– Residues *	9,690	10,539	919	936	996	1,015	11,496	12.2
– Inventories	1,160	1,336	1,172	1,221	1,223	1,164	1,164	18.1
North Central – Total Receipts	6,865	7,020	660	540	469	556	6,991	3.1
– Total Consumpt	6,929	6,963	571	595	596	608	7,202	2.6
– Residues *	1,334	1,422	104	108	118	115	1,337	-7.3
– Inventories	839	938	1,081	1,030	891	849	849	8.0
West – Total Receipts	16,152	17,195	1,249	1,241	1,323	1,284	15,638	-3.7
– Total Consumpt	16,139	16,349	1,291	1,312	1,326	1,311	16,022	0.4
– Residues *	10,401	11,042	829	833	902	856	10,421	-0.4
– Inventories	1,117	1,730	1,728	1,598	1,577	1,674	1,674	41.0

* – Consumption of Residues in cords equivalent

SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA		IMPORTS FROM CANADA *						ANNUAL RATE Y-T-D 1990	% CHANGE FROM SAME PD LAST YEAR
		YEAR 1989		APRIL 1990		MAY 1990			
		Tons	($000)	Tons	($000)	Tons	($000)	Tons	
Pulpwood, Roundwood (In cubic meters)		211,061	4,582	0	0	0	0	0	-100.0
Pulpwood chips		792,156	27,339	63,466	1,866	72,164	2,126	732,684	-25.4
Wood Pulp, Total	A	4,353,343	2,596,247	367,265	219,484	379,208	228,893	4,559,149	2.2
Waste Fibrous Materials, Total		164,217	31,659	11,331	2,551	15,230	4,470	152,856	-17.4
Paper, Board & Products, Total	A	10,966,831	6,104,181	981,916	537,609	961,957	527,946	11,471,316	4.7
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	A	10,807,659	5,782,419	965,671	505,961	948,957	496,401	11,317,014	5.2
Paper, Paperboard & Products	A	10,830,545	6,066,465	972,461	536,029	952,263	526,148	11,359,281	5.5
Paper & Paperboard, Only	A	10,651,373	5,743,703	956,215	503,400	939,263	493,603	11,204,978	6.0
Paper, Total	A	10,234,256	5,579,018	906,055	484,112	896,746	476,879	10,714,521	5.4
Newsprint	A	8,330,674	4,278,705	722,726	361,789	716,818	357,145	8,506,842	2.1
Printing, Writing & Rel. Pap.	A	1,579,896	1,069,263	159,461	103,713	152,297	99,840	1,864,624	22.8
Pack. & Ind. Conv. Paper		217,159	119,140	16,693	8,936	16,232	9,265	210,333	-3.9
Special Industrial Paper		49,045	60,344	4,216	4,536	4,355	4,638	62,610	65.7
Tissue Paper		57,481	51,567	6,760	5,136	7,243	6,171	69,913	25.7
Paperboard, Total		417,117	164,685	48,160	19,288	42,535	16,724	490,457	21.0
Convtd Paper&Paperbd Products		179,172	321,762	16,245	31,626	13,000	31,544	154,303	-22.7
Wet Machine Board		293	245	51	45	89	73	963	203.5
Construction Paper & Board		155,993	36,472	9,404	2,535	9,585	2,724	111,062	-40.4

NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

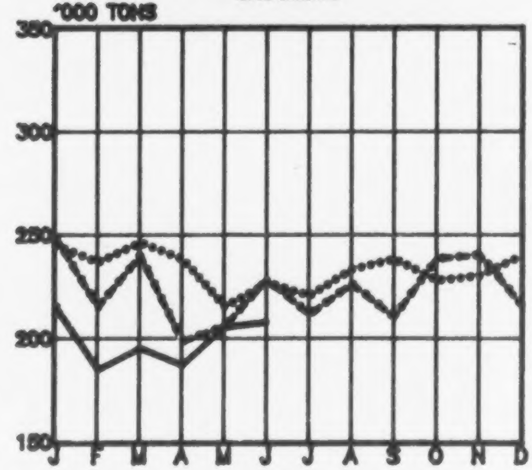
	EXPORTS TO CANADA *							
Pulpwood, Roundwood (In cubic meters)	62,892	1,120	26,326	1,093	24,736	1,796	365,969	1488.6
Pulpwood chips	28,218	1,241	12,532	867	17,172	804	179,750	748.8
Wood Pulp, Total	352,898	141,272	31,912	15,266	27,432	13,721	377,667	33.7
Cotton Pulp & Other Pulp	6,215	4,249	472	459	336	344	4,235	-40.4
Waste Paper	264,379	38,555	49,979	8,791	53,718	9,503	607,710	86.6
Paper, Board & Products, Total	1,083,226	763,613	99,242	106,469	99,907	111,449	1,176,836	25.3
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	754,575	497,470	74,863	66,991	74,002	68,547	888,857	37.8
Paper, Paperboard & Products	1,062,560	755,810	99,060	106,346	99,662	111,306	1,173,974	27.5
Paper & Paperboard, Only	733,907	489,666	74,661	66,868	73,756	68,405	886,996	41.3
Paper, Total	371,206	340,312	41,679	46,325	42,524	49,236	520,756	57.9
Newsprint	8,316	5,891	1,660	1,011	1,532	891	19,597	218.0
Printing, Writing & Rel. Pap.	226,021	222,065	30,908	33,784	30,546	34,678	378,709	65.8
Pack. & Ind. Conv. Paper	66,380	29,624	3,535	2,464	3,854	2,707	48,545	1.3
Special Industrial Paper	62,646	72,955	4,457	7,862	5,421	9,659	60,488	-8.3
Tissue Paper	8,634	9,787	1,126	1,214	1,171	1,302	13,116	122.1
Paperboard, Total	362,701	149,358	33,002	20,543	31,232	19,170	366,240	23.0
Convtd Paper&Paperbd Products	328,653	266,143	24,379	41,478	25,905	42,901	296,078	-2.0
Wet Machine Board	1,628	660	0	0	0	0	0	-100.0
Construction Paper & Board	19,040	7,143	182	124	245	142	1,861	-88.3

SOURCE: Bureau of Census, Department of Commerce .

E – Estimate of tonnage based on square foot data

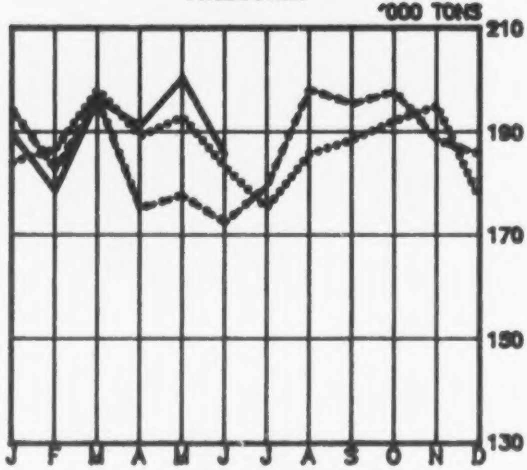
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



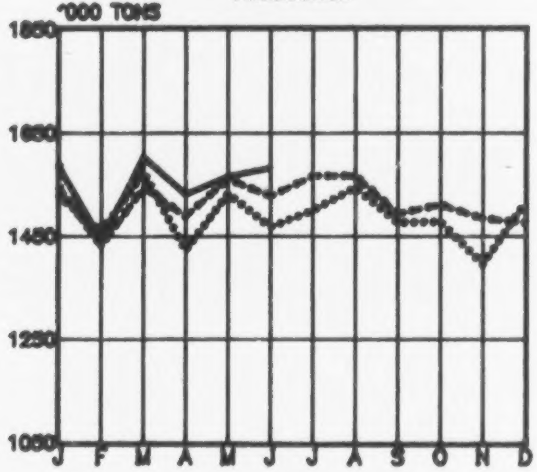
OTHER PAPER

PRODUCTION



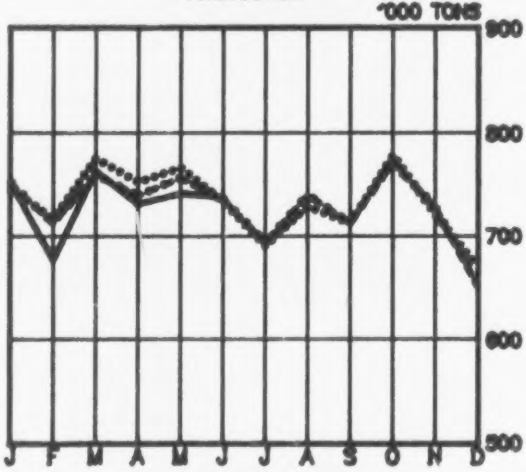
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



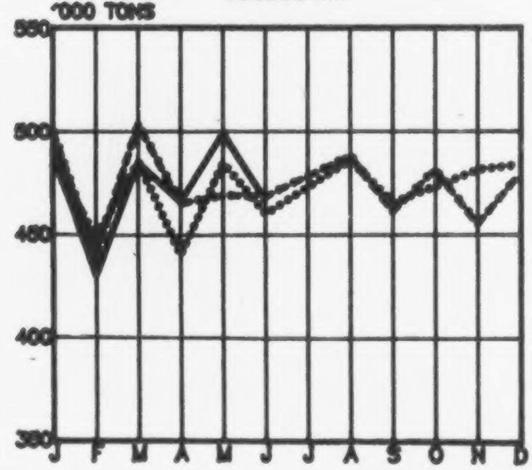
RECYCLED PAPERBOARD

PRODUCTION



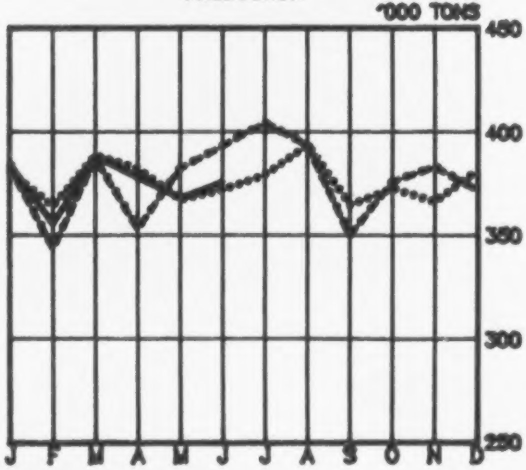
SEMICHEMICAL PAPERBOARD

PRODUCTION



SOLID BLEACHED PAPERBOARD

PRODUCTION



1988 ········ 1989 – – – – –1990 ———

PULP, PAPER AND PAPERBOARD IMPORTS		YEAR 1989		APRIL 1990		MAY 1990		Annual Rate YTD 1990 Tons (1)	% Change from same Period Last Year
		Tons	$000	Tons	$000	Tons	$000		
Pulpwood Roundwood (cubic meters)		211,081	4,882	0	0	0	0	0	-100.0
Pulpwood Chips		806,361	27,780	63,400	1,888	72,242	2,142	733,529	-26.8
Total All Imports	A	18,286,860	11,352,263	1,570,837	959,868	1,554,100	949,969	18,618,554	0.5
Wood Pulp Total	A	5,006,100	2,980,642	417,524	249,473	427,810	256,816	5,066,850	-0.9
Waste Paper		172,575	33,197	10,322	1,824	14,877	4,172	141,882	-26.9
Other Fibrous Materials		11,264	8,518	1,481	949	843	407	14,506	-6.0
Paper Board & Products Total	A	13,096,931	8,329,006	1,141,600	707,343	1,110,671	688,774	13,393,257	1.5
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	A	12,537,474	7,231,848	1,102,422	624,272	1,073,584	602,336	12,964,930	3.3
Paper Ppbd & Prds ex Cnst&WMB	A	12,910,206	8,279,603	1,130,748	704,100	1,099,827	685,446	13,267,918	2.3
Paper & Paperboard Only	A	12,347,748	7,181,244	1,091,670	621,030	1,062,820	589,008	12,839,891	4.2
Paper Total	A	11,814,203	6,900,798	1,026,469	593,706	1,012,499	575,265	12,256,714	4.0
Newsprint	A	8,553,401	4,379,613	743,710	370,643	740,985	387,567	8,719,536	2.0
Printing & Writing	A	2,732,878	1,996,141	251,267	178,876	229,796	160,662	2,997,206	9.6
Uncoated Groundwood		1,304,114	817,785	113,225	69,763	99,680	60,844	1,307,051	1.4
Coated Print.& Impreg. Pap.	A	774,022	632,484	80,136	62,804	67,241	62,866	924,806	23.1
Uncoated Free Sheet	A	663,077	492,404	61,166	39,014	59,406	40,147	691,102	11.7
Thin (except Cigarette)		12,711	16,200	1,161	1,295	840	951	11,806	-11.7
Bristols		59,062	66,267	5,669	6,239	6,340	6,022	62,640	0.3
Total Pkg & Other Paper		407,087	414,353	32,820	36,314	36,007	36,296	428,260	9.0
Unbleached Kraft Paper		239,303	116,011	17,049	8,337	18,063	9,330	227,181	-4.6
Other Pkg. & Indust. Paper		167,785	298,342	15,772	27,977	18,066	28,969	201,089	30.1
Tissue		120,797	110,691	8,702	7,876	10,021	8,746	110,702	-2.9
Paperboard, Total		533,499	280,446	65,171	27,322	60,321	23,716	583,877	10.0
Test or Containerboard		85,048	34,401	13,379	6,040	9,025	3,827	130,099	98.8
Semi-Chemical Corrugating		118,179	36,462	10,652	3,069	9,783	2,796	113,398	-14.4
Other Paperboard		330,262	209,584	31,141	18,213	31,513	17,094	340,399	3.6
Convtd Paper&Paperbd Products		562,457	1,098,259	39,077	83,070	37,107	86,436	428,327	-33.9
Paper Products, Total		470,471	924,729	29,856	66,577	27,140	69,111	326,563	-40.7
Paperboard Products, Total		91,986	173,529	9,223	16,494	9,967	17,327	101,764	4.1
Wet machine Board		606	690	61	66	124	101	1,258	132.4
Construction Paper & Board E		189,119	49,824	10,691	3,184	10,620	3,227	124,063	-45.7
Notes									
Other: No Weight Avail. ($000)			136,624		9,710		11,163	115,410	-1.7
Total Imports Incl. Other($000)			11,488,886		969,386		961,132	11,628,382	1.3

NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

PULP, PAPER AND PAPERBOARD EXPORTS	YEAR 1989		APRIL 1990		MAY 1990		Annual Rate YTD 1990 Tons (1)	% Change from same Period Last Year
	Tons	$000	Tons	$000	Tons	$000		
Pulpwood, Roundwood (cubic meters)	137,617	3,476	30,237	1,394	41,203	2,692	456,660	333.4
Pulpwood Chips	4,367,611	369,154	287,113	26,196	416,311	37,672	4,141,260	-7.8
Total All Exports	18,033,606	8,603,846	1,710,720	814,356	1,573,914	733,795	19,092,076	0.8
Wood Pulp,Total	6,231,172	3,512,604	537,960	293,994	442,943	244,463	5,733,456	-8.7
Cotton Pulp and Other Pulp	122,045	100,510	5,935	6,073	7,742	6,861	98,821	-23.4
Waste and Old Paper	5,980,620	729,787	560,853	71,394	575,234	69,234	6,454,462	4.8
Paper, Board & Products,Total	6,299,768	4,261,036	616,983	443,036	547,998	413,239	6,825,336	8.8
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	5,259,733	2,982,699	532,193	311,526	461,768	281,523	5,789,696	8.5
Paper, Ppbd & Prod ex Cnst&WMB	6,263,491	4,246,277	615,096	442,277	547,239	412,732	6,816,333	7.2
Paper & Paperboard, Only	5,223,456	2,967,926	531,306	310,768	461,009	281,017	5,780,693	9.1
Paper, Total	1,465,752	1,233,527	130,184	122,147	131,731	122,179	1,529,931	5.0
Newsprint	624,798	367,361	45,760	23,826	50,500	26,421	541,163	-14.2
Printing & Writing	478,201	465,168	57,361	60,237	56,427	56,977	681,821	51.8
Uncoated Groundwood	88,056	64,766	6,340	5,849	6,284	6,046	74,285	-17.7
Clay Coated Paper	168,538	131,418	17,236	16,075	16,244	18,013	214,181	44.5
Uncoated Free Sheet	122,348	166,830	21,044	25,562	16,916	24,581	239,579	127.0
Other Printing & Writing	99,260	102,154	12,743	11,852	11,962	11,338	153,776	46.3
Total Pkg. & Other Paper	342,041	380,790	24,008	34,697	23,345	33,676	273,338	-22.7
Unbleached Kraft	125,818	60,318	10,361	5,266	9,039	4,364	110,276	-3.5
Other Pkg. & Indust. Paper	216,223	320,472	13,647	29,432	14,306	29,313	163,062	-31.9
Tissue	20,712	30,187	3,056	3,387	2,400	3,104	33,609	40.1
Paperboard, Total	3,757,704	1,734,402	401,123	188,621	329,279	158,838	4,250,762	10.7
Solid Wood Pulp	3,572,756	1,646,152	381,379	178,353	306,499	146,968	4,014,590	9.4
Total Linerboard	2,499,716	935,364	278,519	102,143	218,801	81,689	2,933,991	11.6
Bleached Kraft Linerboard	283,113	127,787	23,232	10,540	17,098	8,727	303,129	15.7
Unbleached Kraft Linerbd	2,216,603	807,578	255,288	91,603	201,703	72,962	2,630,862	11.1
Other Unbleached Kraft	246,575	113,315	27,923	16,090	24,831	14,230	277,136	16.1
Other Bleached Kraft	796,306	582,979	70,952	58,857	60,433	50,099	767,244	-0.9
Semi-Chemical Corrugating	31,162	14,494	3,984	1,294	2,431	950	36,221	35.4
Recycled Paperboard	184,947	88,250	19,744	10,267	22,783	11,869	236,172	36.8
Convtd Paper&Paperbd Products	1,040,035	1,278,349	83,790	131,509	86,229	131,716	1,036,640	-2.2
Paper Products, Total	473,436	832,806	35,361	84,055	35,053	82,053	415,719	-12.8
Paperboard Products, Total	566,601	445,643	48,420	47,454	51,176	49,662	619,922	6.6
Wet Machine Board	2,989	1,256	49	36	23	9	766	-75.1
Construction Paper & Board E	33,368	13,801	636	720	734	467	8,237	-74.8
Notes								
Other: No Weight Avail. ($000)		23,665		3,776		3,752	42,605	123.2
Total Exports Incl. Other($000)		8,627,611		818,132		737,547	9,182,267	6.3

SOURCE: Bureau of Census, U.S. Department of Commerce. E – incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES 1982 = 100	YEAR		MAR 1990	APR 1990	MAY 1990	JUNE 1990	Annual Rate Y-T-D 1990	% Change from same Period Last Year
	1988	1989						
Pulp, Paper and Products except Building Grades	124.8	132.4	133.2	133.4	132.9	132.8	133.2	1.1
Pulp Paper & Products, ex. Building Grades & ex. Waste Paper *	123.8	132.0	132.9	133.2	132.8	132.7	133.0	1.3
Total Wood Pulp	136.7	157.4	158.0	154.3	152.8	152.0	156.1	0.7
Total Paper	123.2	129.6	127.4	127.8	127.9	128.8	127.9	-1.9
Writing Paper, exc. Newsprint	123.4	130.5	127.7	128.3	128.5	128.9	128.3	-2.5
Newsprint	127.6	122.5	115.3	115.1	115.0	121.0	116.4	-7.0
Total Paperboard	133.2	140.1	138.5	137.8	135.8	135.4	137.6	-2.0
Total Paper and Paperboard *	126.4	132.9	130.9	130.9	130.4	130.9	130.9	-1.9
Converted Products	123.0	131.7	134.6	135.6	135.4	135.0	134.9	3.7
Waste Paper	183.6	157.1	149.3	145.3	141.0	135.9	145.5	-8.1
All Commodities	106.9	112.2	114.2	114.0	114.5	114.2	114.4	2.2
Industrial Commodities	106.3	111.6	113.2	113.1	113.3	113.1	113.4	2.0

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

Paper and Allied Products Companies

Sales and Earnings

	Sales			Net Profit After Taxes			Net Profits/Sales	
	1990	1989	90/89	1990	1989	90/89	1990	1989
	(Thousand Dollars)		%	(Thousand Dollars)		%	%	%
			26	Paper and Allied Products Companies				
First Quarter	17,679,733	16,426,803	7.6	1,030,662	1,307,931	-21.2	5.83	7.96
Second Quarter	17,935,796	17,492,219	2.5	989,356	1,306,863	-24.3	5.52	7.47
Third Quarter		17,223,709			1,341,552			7.79
Fourth Quarter		17,436,072			1,179,712			6.77
Year-to-date	35,615,529	33,919,022	5.0	2,020,018	2,614,794	-22.7	5.67	7.71
Full Year		68,578,803			5,136,058			7.50
			3	Forest Product Companies				
First Quarter	5,416,303	5,235,292	3.5	266,858	341,987	-22.0	4.93	6.53
Second Quarter	6,412,918	5,810,058	10.4	259,256	375,263	-30.9	4.04	6.46
Third Quarter		5,730,507			396,336			6.92
Fourth Quarter		5,510,253			81,085 *			1.47
Year-to-date	11,829,221	11,045,350	7.1	526,114	717,250	-26.6	4.45	6.49
Full Year		22,286,110			1,194,671			5.34

* Includes net nonrecurring charge at one major company.

of wood pulp. Consumption of old newspapers at U.S. mills was up 15.7%, reflecting the start-up of new waste-paper-based machines.

United States production of chemical paper grade market wood pulp in June 1990 registered 651,000 tons, its highest monthly total since January. This resulted in a 101% capacity utilization rate for the month and placed the ratio for the first half of 1990 at a solid 95%. Shipments forged ahead to 670,000 tons in June and recorded their highest monthly total since March 1989.

Inventories of chemical paper grade market pulp held by producers have stabilized since April 30 and as of the end of June represented 21 days of supply. Pulp consumers, on the other hand, continued to shed their inventories: at the end of May, these inventories totaled 437,000 tons, down from 628,000 tons at the end of May 1989 and 519,000 tons at the end of last year.

Through the first half of this year, U.S. shipments of chemical paper grade market pulp were off 3%; the gains posted in shipments to Western Europe and other markets were not quite large enough to offset the losses in shipments to Japan and to the domestic market.

SALES AND EARNINGS

Second quarter 1990 sales of 26 paper and allied products companies reported by the press totaled $17.9 billion, 2.5% above the year-ago figure. This resulted in a year-to-date gain of 5% from the first half of 1989.

After-tax profits did not fare as well, however, sliding 24% from the same quarter last year but showing only a small change from their first quarter 1990 level. The year-to-date total was off 23% from the first half of 1989. Consequently, the ratio of after-tax earnings to sales in the second quarter of 1990 and in the first half eased to 5.5 and 5.7 from 7.5 and 7.7, respectively, from their year-ago rates (See table on page 10).

INTERNATIONAL KRAFT LINERBOARD EXPORT TRENDS

Kraft linerboard exports from the ten major supplying nations listed in the table on page 12 edged up 1.4% in 1989, according to API's International Department. Last year's sluggish gain was preceded by an exceptionally strong 6.1% advance in 1988.

On the other hand, U.S. linerboard exports advanced a handsome 9.6% in 1989, to 2.27 million metric tons, virtually matching the record 2.29 million metric tons reached in 1980, a year in which special factors lifted these exports far above their long-term trend. Last year's strong showing was fueled by a major rebound in U.S. kraft linerboard exports to the People's Republic of China (PRC), as well as by higher exports to most other major regions. U.S. kraft linerboard exports exceeded their year-ago volume by 12% in the first five months of 1990, suggesting continuing strength.

Kraft linerboard exports from Sweden and Finland (which occupy the second and fourth positions on the list of major supplying nations) remained essentially stable from 1988 to 1989, while exports from Brazil and Canada declined 33% and 23%, respectively.

In total, the ten major supplying nations exported 4.69 million metric tons of kraft linerboard in 1989, with 56% of that volume going to Western Europe and 21.7% going to the Far East (including the PRC). The Nordic nations (Sweden, Finland, and Norway) supplied nearly half of the 2.6 million metric tons of kraft linerboard exported to Western Europe in 1989. The U.S. share was 21.9%. But the U.S. held a more dominant position in the Asian market, accounting for about 84% of kraft linerboard exports to that part of the world.

The distribution of U.S. kraft linerboard exports has changed significantly during the past decade. Western Europe's share slipped from 43.2% in 1979 to 25.4% in 1989. During the same period, exports to the Far East and Oceania, including Japan and the PRC, rose from 16.7% to 37.6%. The average annual growth pace of U.S. linerboard exports during the 1979-89 period came to 4.3% a year.

Additional details regarding this subject can be found in Exports of Kraft Linerboard and Corrugating Material from Major Supplying Countries to World Markets. Copies of the report have been mailed to API member companies and are available to others for $125.00 (domestic, plus $7.50 tax for residents of NY State and $10.31 tax for residents of NY City) and $130.00 (foreign) from the American Paper Institute, International Department, 260 Madison Avenue, New York, NY 10016.

EXPORTS OF KRAFT LINERBOARD BY MAJOR SUPPLYING COUNTRIES

	Metric Tons		Percentage Change	
	1989	1988	1989/88	1988/87
United States	2,267,738	2,069,666	+ 9.6	- 0.6
Sweden	1,137,643	1,145,800	- 0.7	+ 5.6
Brazil	273,498	406,658	- 32.7	+ 91.4
Finland	265,614	263,624	+ 0.8	+ 2.3
Canada	225,657	292,835	- 22.9	+ 4.0
Portugal	160,669	119,639	+ 34.3	+ 4.5
France	150,551	125,249	+ 20.2	- 0.0
Austria	110,881	113,960	- 2.7	+ 3.2
Norway	66,225	54,016	+ 22.6	+ 7.6
Spain	32,057	33,203	- 3.5	- 15.2
TOTAL	**4,690,533**	**4,624,650**	**+ 1.4**	**+ 6.1**

Source: API International Department

INDUSTRY FACT SHEET
MONTHLY STATISTICAL SUMMARY INSERT
VOL. 68, NO. 7
JULY, 1990

PRODUCTION (000 TONS)

	(P) JUNE 1990	(R) MAY 1990	JUNE 1989	FIRST 6 MONTHS 1990	1989	% CHANGE YR TO DATE 1990/1989
PAPER GRADES						
Newsprint	539	545	498	3,231	2,966	8.9
Printing & Writing	1,793	1,835	1,742	11,055	10,752	2.8
Uncoated Groundwood (s)	145	144	136	893	858	4.0
Coated Paper (s)	603	621	585	3,627	3,505	3.5
Uncoated Free Sheet Paper (s)	910	938	886	5,727	5,593	2.4
Thin Paper (s)	22	22	21	136	129	6.1
Cotton Fiber Paper (s)	13	14	13	82	83	-0.9
Bleached Bristols (s)	100	95	102	589	584	0.9
Tissue Paper	479	494	469	2,865	2,798	2.4
Total Pkg & Other Paper	394	406	401	2,338	2,436	-4.0
Unbl. Kraft Paper (s)	208	206	229	1,197	1,337	-10.5
Other Paper	185	201	172	1,141	1,098	3.9
TOTAL PAPER	3,205	3,279	3,109	19,489	18,952	2.8
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,681	1,683	1,641	9,929	9,748	1.9
Unbleached Kraft Linerboard	1,583	1,567	1,528	9,316	9,097	2.4
Other Unbl. Kraft Paperboard	98	116	113	613	651	-5.9
Semichemical Paperboard	467	499	469	2,837	2,846	-0.3
Bleached Paperboard	376	368	393	2,250	2,242	0.3
Recycled Paperboard	738	742	736	4,403	4,456	-1.2
TOTAL PAPERBOARD	3,262	3,292	3,239	19,420	19,293	0.7
TOTAL PAPER AND PAPERBOARD	6,467	6,571	6,349	38,908	38,245	1.7

WOOD PULP (ALL GRADES)	MAY 1990	APR 1990	MAY 1989	FIRST 5 MONTHS 1990	1989	% CHANGE YR TO DATE 1990/1989
Dissolving & Special Alpha	103	98	109	537	584	-8.1
Bleached Sulfite) Unbleached Sulfite)	134	133	128	658	658	-0.1
Bleached & Semi-Bl. Sulfate	2,211	2,286	2,198	11,353	11,283	0.6
Unbleached Sulfate	1,814	1,802	1,805	9,111	9,011	1.1
Semichemical	381	397	356	1,872	1,835	2.1
Groundwood & Thermomechanical	522	540	496	2,627	2,465	6.6
TOTAL PULP DIVISION DATA	5,164	5,254	5,091	26,158	25,836	1.2

(s) - Shipments
P - Preliminary
R - Revised

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

INDUSTRY DATA JULY 31, 1990	1988	1989	1990	1990 R	1990 P	AN RATE Y-T-D 9	% CH SAME PD 89
PAPER AND PAPERBOARD — Tons (000)			Apr	May	June		
Total Production (API): excluding :	78,486	78,648	6,409	6,572	6,487	77,817	1.7
Total Seasonally Adjusted: construction :			6,537	6,495	6,511	77,799	1.7
Imports (Including Products): and wet : E	12,788	12,910	1,131	1,100	1,108	13,299	2.9
Exports (Including Products): machine : E	5,559	6,264	615	547	586	6,850	8.7
Apparent Consumption: grades :	83,894	83,292	7,053	7,047	7,032	84,236	1.4
Paper Production % Tonnage Capacity	95.4 g	92.4	92.7	91.1	91.9	93.0	-
Paperboard Production % Tonnage Capacity	94.6 g	93.5	95.4	92.1	94.3	93.5	-
PAPER, PAPERBOARD AND PRODUCTS			Mar	Apr	May		
Imports: Including Construction and :	13,110	13,101	1,162	1,142	1,111	13,383	1.5
Exports: WMB Grades (excl. HPB) :	5,691	6,300	596	616	548	6,825	6.8
MARKET WOOD PULP PRODUCTION – Tons (000)	8,565	8,664	727	674	698	8,503	-3.6
TOTAL WOOD PULP PRODUCTION – Tons (000)	61,161 f	61,999 f	5,272	5,254	5,164	62,778	1.2
WOOD PULP IMPORTS – TONS (000)	5,038	5,005	429	418	428	5,089	-0.9
WOOD PULP EXPORTS – TONS (000)	5,528	6,231	578	536	443	5,733	-8.7
RAW MATERIALS CONSUMPTION – Tons (000)							
PAPER AND BOARD MILLS: excluding :			Mar	Apr	May		
Wood Pulp: consumption for :	60,294	60,727	5,181	5,212	5,118	61,748	1.5
Waste Paper: construction & :	19,021	20,010	1,805	1,739	1,799	20,945	5.8
TOTAL: WMB grades :	79,315	80,737	6,986	6,950	6,918	82,692	2.5
PULPWOOD CONSUMPTION Cords (000) Amer. Pulpwd. Assn	95,487	98,414	8,341	8,260	8,113	99,300	2.1
EMPLOYMENT (000)			Apr	May	June		
Paper and Allied Products Total	692.6	697.2	694.9	694.9	704.7	698.0	0.2
Pulp, Paper and Board Mills Total E	247.2	247.1	246.1	245.8	251.1	247.1	0.5
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			Apr	May	June		
Paper and Allied Products	11.69	11.93	12.27	12.29	12.22	12.19	2.9
Pulp, Paper Mills E	14.31	14.71	15.25	15.15	15.06	15.08	3.5
Paperboard Mills E	14.46	14.76	15.18	15.32	15.00	15.07	3.5
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1989 Q4	1990 Q1	1990 Q2		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	11.36	15.69	17.69	17.93	17.14	17.20	9.6
INDEX OF OUTPUT PER MAN-HOUR (1977=100)			Apr	May	June		
:IN PULP, PAPER : Production Workers	146.0	146.6	146.4	148.0	147.1	148.2	0.5
:AND BOARD MILLS: All Employees	142.8	143.4	144.0	145.1	144.3	145.1	0.5
PAPER AND ALLIED PRODUCTS (Million $)			Mar	Apr	May		
Industry Shipments (Dept. of Commerce)*	127,719	130,501	10,985	10,801	11,031	130,229	-0.4
Pulp, Paper and Paperboard*	57,177	57,700	4,727	4,559	4,724	55,630	-5.0
Inventories (End of Period) – Total Industry*	12,065	12,571	12,649	12,651	12,698	12,698	5.2
Pulp, Paper and Paperboard*	4,325	4,980	4,964	5,000	5,040	5,040	7.7
PAPER AND ALLIED PRODUCTS COMPANIES (Million $)			1989 Q3	1989 Q4	1990 Q1		
Sales (Corporations Only)	107,221	113,573	28,456	28,861	28,534	114,136	3.4
Earnings (Corporations Only)	8,081	7,047	1,872	1,160	1,389	5,556	-30.5
Depreciation (Corporations Only)	4,625	5,010	1,280	1,301	1,347	5,388	12.3
Net Worth (Corporations Only)	42,940	45,642	46,246	45,642	48,519	48,519	10.7
PRICE INDEXES (Bureau of Labor Stats)1982=100			Apr	May	June		
Pulp, Paper & Products, ex. Building Grades	124.8	132.4	133.4	132.9	132.8	133.2	1.1
Wood Pulp	136.7	157.4	154.3	152.8	152.0	156.1	0.7
Waste Paper	183.6	157.1	146.3	141.0	135.9	145.5	-8.1
Paper	123.2	129.6	127.8	127.9	128.8	127.9	-1.9
Paperboard	133.2	140.1	137.8	135.8	136.4	137.6	-2.0
PAPER DEMAND (INDEXED: 1987=100)			Apr	May	June		
Total Paper Production *	103.9	103.4	106.4	107.4	105.8	106.1	2.9
Paper New Supply *	103.8	102.2	105.5	105.6	104.5	104.9	2.9
Demand Indicators – (Weighted Average) *	103.8	108.1	110.2	110.9	110.8	110.5	2.6
Production of Nondurable Goods * (21.2%)	103.6	106.4	107.3	107.4	107.8	107.6	1.4
Disposable Income * (23.9%)	104.4	108.6	110.8	110.6	108.5	110.2	2.3
Total Printing and Publishing * (54.9%)	103.6	108.6	111.1	112.4	113.0	111.8	3.1
PAPERBOARD DEMAND (INDEXED: 1987=100)							
Total Paperboard Production *	101.7	102.6	104.7	102.3	104.4	103.2	0.6
Production for Domestic Use	102.0	102.7	104.3	100.9	103.3	102.0	-0.7
Demand Indicators – (Weighted Average) *	104.7	107.2	107.4	108.0	108.6	107.6	0.4
Production of Consumer Goods * (62.06%)	104.0	106.6	106.9	107.5	108.2	107.2	0.6
Production of Equipment * (5.75%)	107.5	112.3	114.5	116.1	116.9	114.6	2.4
Production of Materials * (32.19%)	105.6	107.4	107.2	107.6	107.8	107.2	-0.3
MARKET DATA			Mar	Apr	May		
Consumption by Publishers – Tons (000)	13,487	13,493	1,167	1,144	1,181	13,397	0.9
Newspaper Pub. and Printing Empl. Total(000)	475	478	481	480	482	481	1.1
Magazine Advertising Pages (PIB, Inc.)	172,580	179,450	15,144	16,786	15,302	171,555	-4.2
Wholesalers Sales and Inventories (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales	52,377	56,803	4,536	4,161	4,431	51,494	-5.4
Inventories (End of Period)	4,436	4,508	4,103	4,067	4,063	4,063	-9.4
FIBRE BOX DATA (Fibre Box Association)			Apr	May	June		
Fibre Box Shipments (Million square feet)	308,507	313,400	26,847	27,358	26,285	317,406	0.5
Container'bd Inventory at Mill & Plant (000 Tons)	2,553	2,589	2,593	2,542	2,498	2,498	0.9
RETAIL TRADE (Billion $)			Apr	May	June		
Total Retail Sales *	1,622	1,711	147.9	147.0	147.8	1,784	5.5
Nondurable Goods Stores Sales *	996	1,062	94.3	93.6	94.5	1,131	8.0
GENERAL ECONOMIC DATA			Apr	May	June		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1987 = 100)*	105.4	108.1	108.7	109.3	109.8	108.8	0.7
PRODUCER PRICES (ALL COMMODITIES) (INDEX 1982=100)	108.9	112.2	114.0	114.5	114.2	114.4	2.2
CONSUMER PRICES (ALL ITEMS–URBAN CON.) (1982-4=100)	118.3	124.0	128.9	129.2	129.9	128.7	4.9
GROSS NATIONAL PRODUCT – ANNUAL RATE (Billion$)			1989 Q4	1990 Q1	1990 Q2		
G.N.P. or Expenditure – Current $	4,874	5,201	5,289	5,375	5,452	5,414	5.4
G.N.P. or Expenditure – 1982 $	4,017	4,118	4,133	4,151	4,163	4,157	1.3
PAPER AND PAPERBOARD CONSUMPTION – POUNDS PER CAPITA	677	667				673	

f – Wood Pulp Prod exc del., explo & scr. g – Adj for holiday shutdowns R – Revised E – Last month estimated by API Y – Full year estimated by Dep't of Commerce * Seasonally Adjusted

A2500-2

Paper
Paperboard
& Wood Pulp

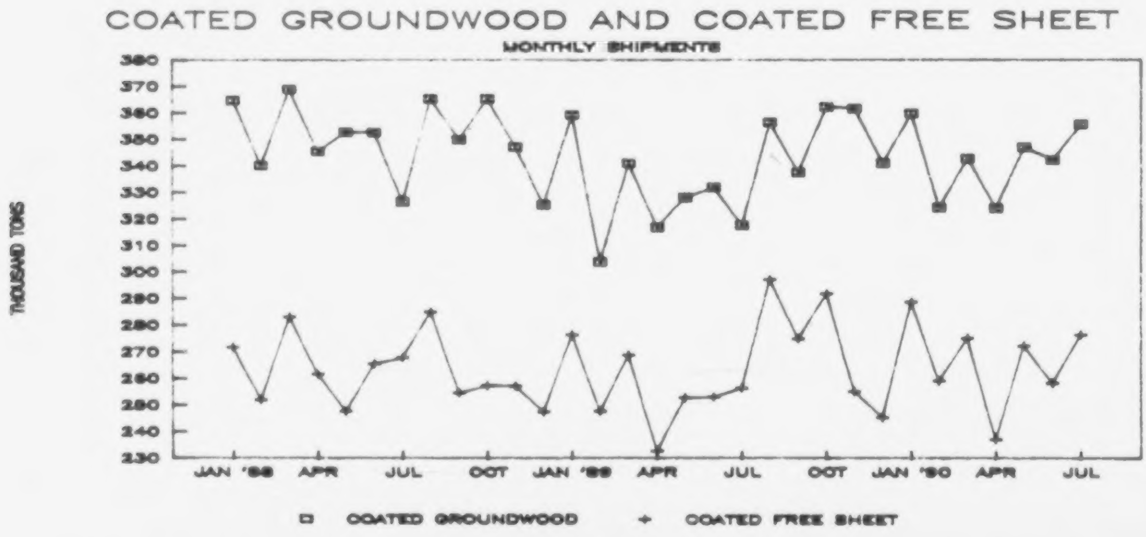
MONTHLY STATISTICAL SUMMARY - Vol.68 No.8 AUGUST 1990

PAPER AND PAPERBOARD PRODUCTION: HOLDING UP WELL

In the face of widespread reports of a slow-growth economy, paper and paperboard demand continued to move ahead of its year-earlier levels. In the first seven months of 1990 domestic production posted a 1.9% gain over its year-ago total while total new supply (production plus imports less exports) increased an estimated 1.6%.

Most of the advances were in the paper grades, with total paper production rising 3.2%, paperboard 0.7%. These trends reflected the slower growth in the manufacturing sectors -- the major markets for paperboard packaging -- relative to those of the service sectors. Total industrial production, for example, was 0.9% above its comparable 1989 level in the first seven months of 1990; real GNP was up 1.3% in the first half of 1990.

Paper: Gains in the paper sector continue to be dominated by newsprint and the larger printing-writing grades. The increases in domestic newsprint production can be traced to the three new machines that came on line during 1989. Total consumption of newsprint by publishers in the January-July 1990 period, as reported by the Canadian Pulp and Paper Association, was up 1.6%, while shipments of newsprint from Canada, also as reported by the CPPA, showed a 0.8% increase. Newspaper publishers continue to keep tight control of newsprint inventories, with the July 31, 1990 total 0.8% below its year-ago level and 14% below July 1988.



Copyright ⓒ 1990 American Paper Institute 260 Madison Avenue New York, N.Y. 10016

Led by gains in coated papers, domestic shipments of printing-writing papers were 3.3% above their January-July 1989 total in the comparable 1990 period. These data are based on the API's Printing-Writing Division annual audit of shipments. Minor changes were noted in the coated paper and uncoated free sheet totals, while a significant downward revision was reported for uncoated groundwood paper shipments.

Total trade in the printing-writing grades has been growing strongly. First half 1990 imports, reported at 3 million tons per year, were 10.7% above their year-ago level; exports, at 677,000 tons per year, were up 43%.

The Printing-Writing Paper Division has made available separate shipments data on coated groundwood and coated free sheet papers which appears in this report (see chart on preceding page and table on page 3). Annual data for the 1982-1989 period will be published in the API's 1990 edition of the Statistics of Paper, Paperboard and Wood Pulp.

Shipments of coated free sheet papers have recently been growing somewhat faster than those of the coated groundwood grades. The coated free sheet grades are used in direct mail advertising, merchandising brochures, annual reports and similar publications, while coated groundwood papers comprise most of the paper for magazines. Coated groundwood papers now account for 56% of total domestic coated paper shipments.

Imports of coated papers have been rising sharply, largely in coated groundwood: Census data show first half 1990 total coated paper imports 26% above those of the first half of 1989, accounting for about 12% of total purchases. Coated groundwood paper imports, at an annual rate of 676,000 tons, gained 29%, coated free sheet papers, at 271,000 tons per year, 20%. The sources of coated free sheet paper imports are fairly well distributed among all the producing countries. Nearly half the imports of coated groundwood papers, however, come from Canada, with Finland supplying another quarter and West Germany about 15%.

Strongest markets for uncoated free sheet papers were in the printing grades. A 5.9% increase was reported for the offset (printing paper) grades for the first half of 1990 vs. 1989. Shipments of bond and writing papers were up 1.4%, while form bond paper fell by 3.8%.

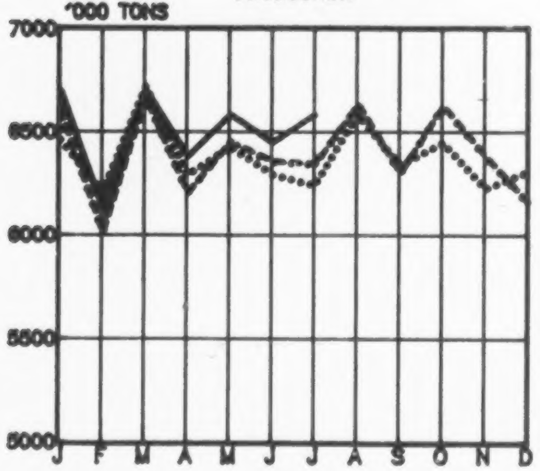
Packaging papers shipments continue to decline. The January-July 1990 total for unbleached kraft papers was down 9.4% from its year-earlier level, with the losses concentrated in the wrapping and bag and sack grades. Multiwall sack paper shipments were 1.9% below their year-ago totals, while other converting papers (accounting for 7.6% of the total) gained 12%. Unbleached kraft paper imports have been growing, and now account for 9% of new supply. Shipments

PAPER AND PAPERBOARD STATISTICS PRODUCTION, SHIPMENTS AND ORDERS (Thousands of Tons)	YEAR 1988	YEAR 1989	APR 1990	MAY 1990	JUNE (R) 1990	JULY (P) 1990	Annual Rate Y-T-D 1990	% Change From Same Period Last Year
PAPER								
Newsprint – Production	5,982	6,088	541	545	539	560	6,499	8.7
– Shipments	5,989	6,079	544	553	536	560	6,513	9.8
Printing & Writing: Total Shipments	21,860	21,607	1,782	1,840	1,766	1,867	22,108	3.3
Groundwood Paper – Shipments	1,624	1,743	140	138	141	157	1,751	2.0
– New Orders	1,654	1,773	115	158	173	162	1,785	3.7
– Unfilled Orders	208	210	140	170	196	200	200	5.4
Coated Groundwood – Shipments	4,204	4,059	324	347	342	356	4,108	4.2
Coated Free Sheet – Shipments	3,155	3,157	237	273	259	277	3,204	4.4
Total Coated Papers – Shipments	7,359	7,215	562	620	601	633	7,313	4.3
– New Orders	7,412	7,284	648	614	647	655	7,482	4.4
– Unfilled Orders	751	824	728	761	788	825	825	–0.4
Unctd Free Sheet – Shipments	11,277	11,081	958	957	904	964	11,498	3.8
– New Orders	11,298	11,170	977	1,007	984	917	11,728	8.5
– Unfilled Orders	790	785	738	831	893	832	832	50.2
Thin Papers – Shipments	281	245	16	17	15	14	225	–11.4
Cotton Fiber Paper – Shipments	169	161	14	14	14	11	166	0.5
Bleached Bristols – Shipments	1,150	1,163	92	94	92	89	1,155	–2.2
Tissue Paper – Production	5,476	5,636	467	494	479	480	5,733	2.7
Total Packaging & Other Paper	5,047	4,925	379	406	394	386	4,669	–3.7
Unbl. Kraft Paper – Shipments	2,800	2,681	187	206	208	206	2,405	–9.4
Other Paper – Production	2,247	2,243	191	201	186	179	2,264	3.3
TOTAL PAPER PRODUCTION – UNADJUSTED	38,366	38,256	3,168	3,284	3,177	3,293	39,009	3.2
TOTAL PAPER PRODUCTION – SEAS ADJ			3,232	3,308	3,224	3,380	39,293	3.2
PAPERBOARD – PRODUCTION								
Containerboard	26,225	26,428	2,200	2,282	2,251	2,334	26,923	1.4
Cont'bd For Dom Use for Fibre Boxes	23,563	23,752	1,977	2,013	1,997	2,084	23,921	0.4
Total Linerboard	16,177	16,399	1,359	1,371	1,390	1,447	16,477	0.0
Unbleached Kraft	15,601	15,833	1,325	1,333	1,354	1,410	16,048	1.0
Solid Bleached	170	178	11	9	10	10	129	–29.3
Recycled	407	388	24	30	26	27	301	–24.8
Corrugating Medium	7,351	7,339	618	640	607	637	7,435	1.4
Semichemical	5,528	5,554	456	483	450	481	5,550	–0.1
Recycled	1,823	1,785	162	158	156	156	1,885	6.2
Container Chip and Filler	35	14	0	1	0	1	9	–44.2
Other Containerboard for Dom Use	320	307	22	33	22	27	294	–6.4
Containerboard for Export	2,342	2,369	201	236	231	222	2,708	12.0
Boxboard	11,878	12,029	1,002	1,010	1,012	951	11,998	–1.0
Boxboard for Packaging for Dom Use	7,014	7,076	577	595	586	564	7,009	–2.3
Folding Boxboard	5,293	5,370	415	442	432	415	5,206	–3.9
Solid Bleached	2,017	1,980	147	159	156	151	1,871	–6.1
Unbleached Kraft	924	987	72	83	75	77	935	–7.2
Recycled	2,353	2,403	196	200	201	187	2,400	–0.7
Set–up Boxboard for Dom Use	279	288	29	27	25	20	312	6.8
Milk Carton & Food Service Dom Use	1,442	1,419	133	126	129	129	1,491	1.5
Other Boxboard for Domestic Use	4,075	4,089	338	341	346	321	4,032	–2.2
Boxboard for Export	789	863	87	75	80	66	957	16.5
Paperboard Production by Furnish	38,103	38,456	3,202	3,292	3,262	3,284	38,921	0.7
Unbleached Kraft	19,140	19,490	1,627	1,683	1,681	1,736	19,996	2.0
Semichemical	5,664	5,691	466	499	467	493	5,708	0.2
Solid Bleached Kraft	4,511	4,521	378	368	376	360	4,474	–1.4
Recycled	8,788	8,754	731	742	738	696	8,742	–1.0
Paperboard Production for Export	3,132	3,232	288	312	311	288	3,665	13.1
Unbleached Kraft	2,296	2,363	208	235	229	222	2,721	13.6
Semichemical	136	138	10	16	17	12	158	9.9
Bleached Kraft	628	693	66	56	61	50	736	11.3
Recycled	72	38	4	5	4	4	49	32.0
TOTAL PAPERBOARD PRODUCTION – UNADJ	38,103	38,456	3,202	3,292	3,262	3,284	38,921	0.7
TOTAL PAPERBOARD PROD – SEAS ADJ			3,266	3,191	3,258	3,268	38,731	0.6
PAPER AND PAPERBOARD – UNADJ	76,469	76,713	6,371	6,576	6,440	6,578	77,930	1.9
PAPER AND PAPERBOARD – SEAS ADJ			6,498	6,500	6,483	6,647	78,024	1.9

R – Revised P – Preliminary Seas. Adj. – Seasonally Adjusted Unadj – Not Seasonally Adjusted

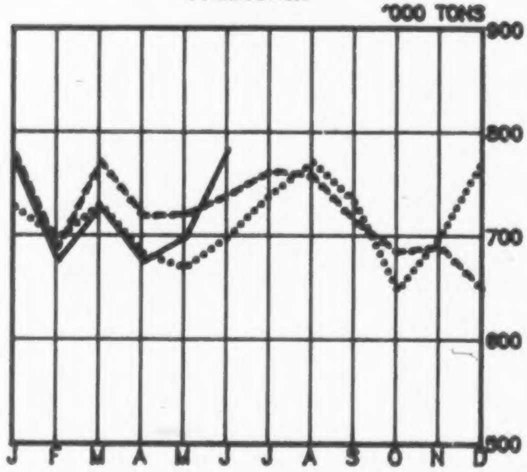
TOTAL PAPER AND PAPERBOARD

PRODUCTION



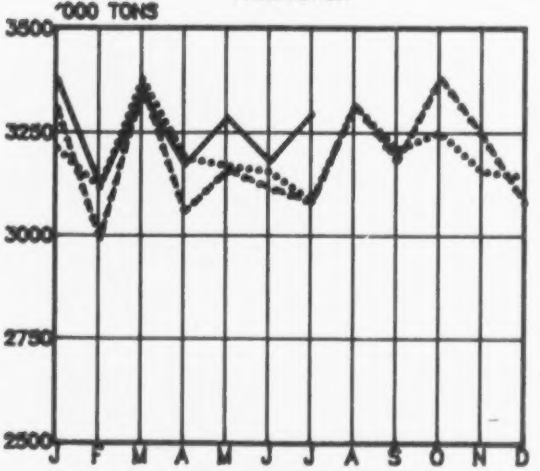
MARKET WOOD PULP

PRODUCTION



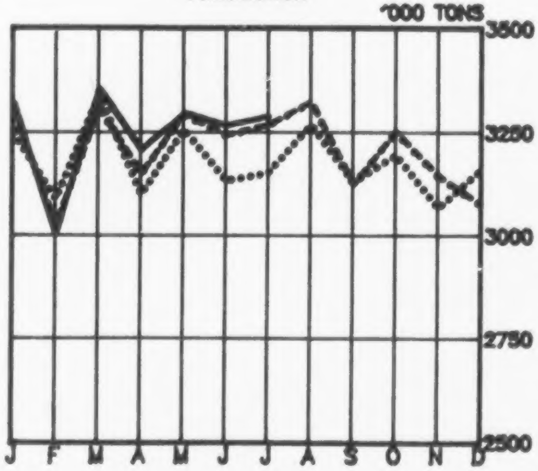
TOTAL PAPER

PRODUCTION



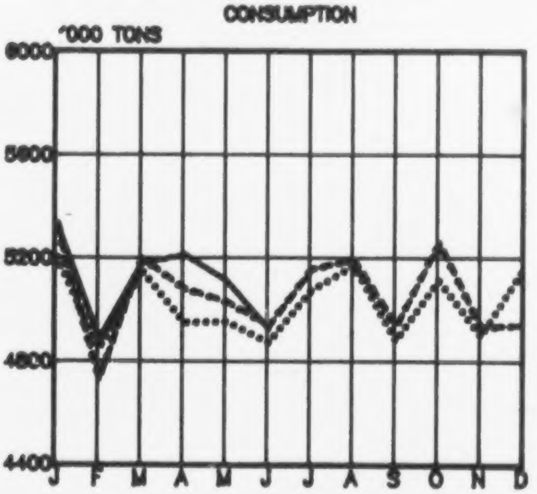
TOTAL PAPERBOARD

PRODUCTION



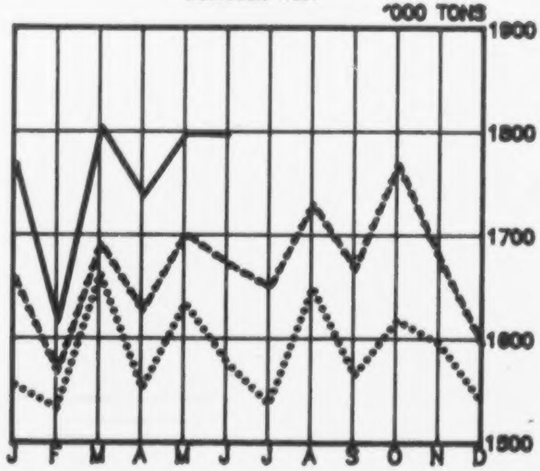
TOTAL WOOD PULP

CONSUMPTION



TOTAL WASTE PAPER

CONSUMPTION



1988 ········ 1989 - - - - - 1990 ———

WOOD PULP STATISTICS (Thousands of Tons)		YEAR 1988	YEAR 1989	MAR 1990	APR 1990	MAY (R) 1990	JUNE (P) 1990	Annual Rate Y-T-D 1990	% Change From Same Period Last Year
TOTAL WOOD PULP									
Total Wood Pulp	Production	61,161	61,998	5,272	5,254	5,156	5,173	62,643	1.2
	Imports A	5,038	5,005	429	418	428	364	4,951	-1.8
	Exports	5,528	6,231	578	538	443	560	5,898	-7.2
	New Supply	60,671	60,772	5,123	5,134	5,141	4,976	61,696	1.9
Dissolving Pulp	Production	1,367	1,425	123	98	103	114	1,301	-5.1
	Imports	248	284	23	15	27	10	226	-24.9
	Exports	865	836	71	71	64	86	804	-4.8
	New Supply	751	873	74	42	66	38	723	-12.6
Paper Grades	Production	49,493	50,181	4,275	4,220	4,158	4,199	50,641	0.8
Chemical Pulp	Imports A	4,419	4,370	373	371	368	328	4,361	-1.6
	Exports	4,612	5,325	503	460	377	469	5,041	-7.2
	New Supply	49,300	49,226	4,145	4,131	4,150	4,058	49,960	1.5
Groundwood and	Production	5,943	6,029	509	540	522	519	6,292	6.9
Thermo-Mech	Imports A	371	351	33	31	32	26	365	19.3
	Exports	51	70	3	8	2	5	53	-31.3
	New Supply	6,263	6,309	539	563	552	540	6,604	8.0
Semi-Chemical	Production	4,358	4,363	365	397	373	341	4,409	0.8
	Imports								
	Exports								
	New Supply	4,358	4,363	365	397	373	341	4,409	0.8
MARKET WOOD PULP									
Total Market	Production	8,565	8,664	727	674	698	783	8,653	-2.0
Wood Pulp	Imports	3,471	3,340	249	263	257	240	3,072	-8.6
	Exports	5,071	5,310	508	446	422	564	5,369	-1.4
	New Supply	6,966	6,694	468	491	533	460	6,356	-5.7
Dissolving Pulp	Production	1,365	1,422	122	97	103	113	1,300	-5.0
	Imports	206	210	18	8	25	7	163	-26.5
	Exports	798	821	75	59	60	90	800	-3.8
	New Supply	774	810	65	47	67	31	663	-12.5
Paper Grades	Production	7,200	7,242	605	577	595	669	7,350	-1.4
Chemical Pulp	Imports	3,126	3,072	229	254	231	231	2,889	-6.0
	Exports	4,273	4,489	433	387	362	474	4,569	-1.0
	New Supply	6,052	5,825	401	444	464	426	5,670	-4.2
Groundwood Pulp	Production	0	0	0	0	0	2	0	0.0
and All Other	Imports	139	58	2	1	2	1	20	-68.7
	Exports	0	0	0	0	0	0	0	0.0
	New Supply	139	58	2	1	2	3	23	-64.0

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

NOTE: A - API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

FIBROUS RAW MATERIALS (Thousands of tons)	YEAR 1988	YEAR 1989	MAR 1990	APR 1990	MAY (R) 1990	JUNE (P) 1990	Annual Rate 1990	% Change From Same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS								
Total	79,315	80,737	6,986	6,950	6,909	6,721	82,335	2.4
Total Wood Pulp	60,294	60,727	5,181	5,212	5,110	4,923	61,285	1.1
Waste Paper	19,021	20,010	1,805	1,739	1,799	1,798	21,050	6.1
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	172	193	202	196	184	214	214	30.4
Producers' Market Inventories	261	342	487	455	451	437	437	46.0
Consumers' Purchased Inventories #	622	519	475	431	437	485	485	-17.4
Waste Paper at Paper & Bd. Mills	1,044	1,085	1,031	1,006	1,016	1,029	1,029	-4.1
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	14	19	26	22	22	21	21	40.0

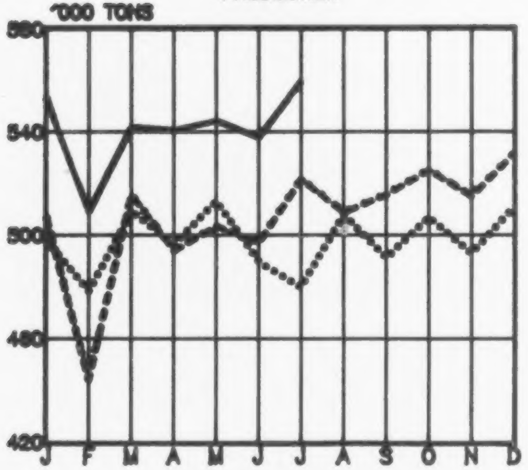
SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.

Includes all grades of wood pulp

P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

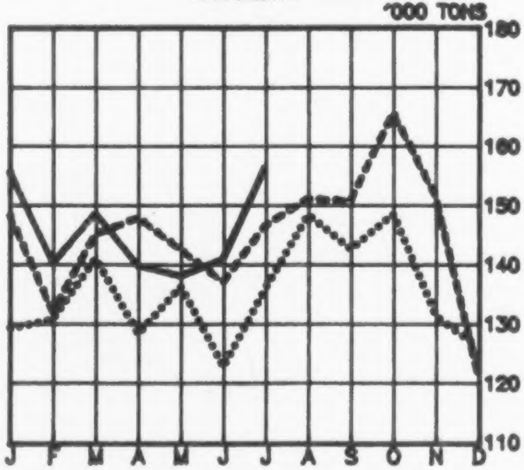
NEWSPRINT

PRODUCTION



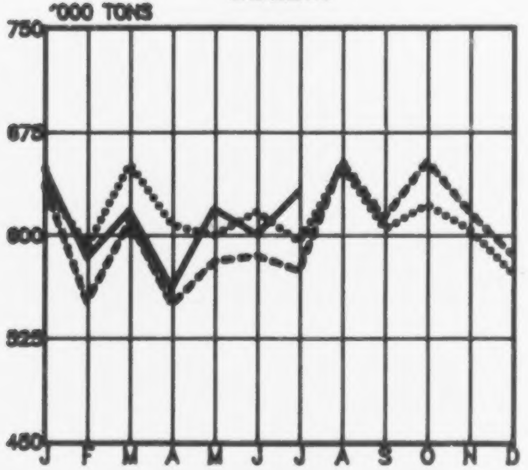
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



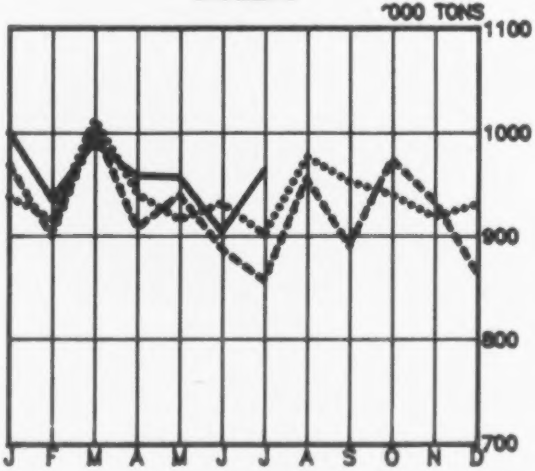
COATED PAPER

SHIPMENTS



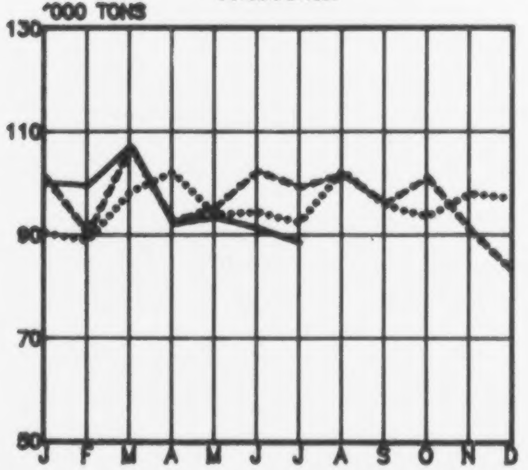
UNCOATED FREE SHEET PAPERS

SHIPMENTS



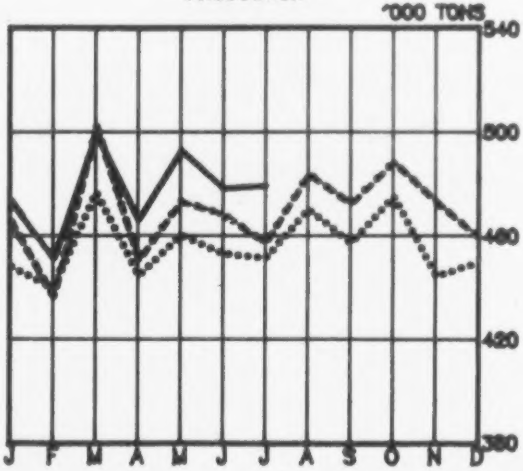
BLEACHED BRISTOLS

PRODUCTION



TISSUE PAPER

PRODUCTION



1988 ········ 1989 - - - - 1990 ———

FIBROUS RAW MATERIALS (Thousands of Standard (128 Cu. ft.) Cord	YEAR		MARCH	APRIL	MAY	JUNE	ANNUAL RATE Y-T-D	% CHANGE FROM SAME PD LAST YEAR
	1988	1989	1990	1990	1990	1990	1990	
PULPWOOD								
Total U.S. – Total Receipts	96,537	99,279	8,260	8,138	8,014	8,006	96,748	1.9
– Total Consumpt	95,497	98,414	8,341	8,260	8,113	8,042	98,834	1.1
– Residues *	33,186	34,539	2,927	3,063	2,996	2,888	35,656	6.0
– Inventories	4,888	5,462	5,433	5,209	5,177	5,167	5,167	19.0
So. Atlantic – Total Receipts	31,582	31,982	2,780	2,769	2,862	2,844	32,822	3.9
– Total Consumpt	31,567	32,239	2,750	2,783	2,863	2,863	32,516	0.9
– Residues *	9,897	9,981	924	921	890	903	11,060	13.0
– Inventories	1,200	936	1,036	1,048	1,077	1,082	1,082	18.8
Northeast – Total Receipts	7,187	7,242	586	526	510	601	7,128	-0.9
– Total Consumpt	7,216	7,072	607	648	536	603	7,248	0.4
– Residues *	1,664	1,575	126	126	120	129	1,506	-11.2
– Inventories	572	522	549	470	413	378	378	-14.3
South Central – Total Receipts	33,751	36,840	3,113	3,061	3,012	2,933	36,264	6.0
– Total Consumpt	33,646	35,791	3,077	2,927	2,995	2,908	35,980	2.5
– Residues *	9,890	10,539	936	996	1,015	931	11,442	11.8
– Inventories	1,160	1,336	1,221	1,229	1,164	1,192	1,192	39.1
North Central – Total Receipts	6,866	7,020	540	469	566	602	7,036	2.7
– Total Consumpt	6,929	6,963	595	596	608	579	7,160	1.8
– Residues *	1,334	1,422	106	118	115	105	1,324	-6.5
– Inventories	839	938	1,030	891	849	877	877	14.2
West – Total Receipts	16,152	17,196	1,241	1,323	1,284	1,226	16,484	-7.2
– Total Consumpt	16,139	16,349	1,312	1,326	1,311	1,289	15,930	-1.5
– Residues *	10,401	11,042	833	902	856	820	10,324	-4.7
– Inventories	1,117	1,730	1,596	1,677	1,674	1,636	1,636	19.9

* – Consumption of Residues in cords equivalent

SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA		IMPORTS FROM CANADA *						ANNUAL RATE Y-T-D 1990	% CHANGE FROM SAME PD LAST YEAR
		YEAR 1989		MAY 1990		JUNE 1990			
		Tons	($000)	Tons	($000)	Tons	($000)	Tons	
Pulpwood, Roundwood (in cubic meters)		211,061	4,582	0	0	0	0	0	-100.0
Pulpwood chips		792,186	27,339	72,164	2,125	44,458	1,478	699,469	-24.5
Wood Pulp, Total	A	4,353,343	2,599,247	379,208	228,893	329,457	197,872	4,458,205	1.1
Waste Fibrous Materials, Total		164,217	31,659	15,230	4,470	10,248	2,480	147,876	-19.2
Paper, Board & Products, Total	A	10,966,831	6,104,181	961,967	527,948	952,031	537,878	11,463,491	5.1
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	A	10,807,659	5,782,419	948,957	496,401	939,225	509,913	11,309,294	5.6
Paper, Paperboard & Products	A	10,830,545	6,065,465	962,283	525,148	941,428	534,979	11,348,923	5.7
Paper & Paperboard, Only	A	10,651,373	5,743,703	939,283	493,603	926,622	507,014	11,194,725	6.3
Paper, Total	A	10,234,256	5,579,018	896,748	476,879	885,762	490,346	10,700,271	5.8
Newsprint	A	8,330,874	4,278,705	716,618	367,146	696,801	381,655	8,460,836	2.6
Printing, Writing & Rel. Pap.	A	1,579,696	1,069,263	152,297	99,640	157,796	105,296	1,869,450	21.6
Pack. & Ind. Conv. Paper		217,159	119,140	16,232	9,285	18,372	10,149	212,023	0.4
Special Industrial Paper		49,045	60,344	4,365	4,636	6,466	6,001	63,272	57.6
Tissue Paper		57,481	51,567	7,243	6,171	8,315	7,245	74,891	32.1
Paperboard, Total		417,117	164,685	42,536	16,724	42,870	16,669	494,455	18.0
Convtd Paper&Paperbd Products		179,172	321,762	13,000	31,544	12,806	27,965	154,196	-23.3
Wet Machine Board		293	245	89	73	70	54	959	179.9
Construction Paper & Board		155,993	38,472	9,585	2,724	10,533	2,845	113,609	-35.1

NOTE: A – API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

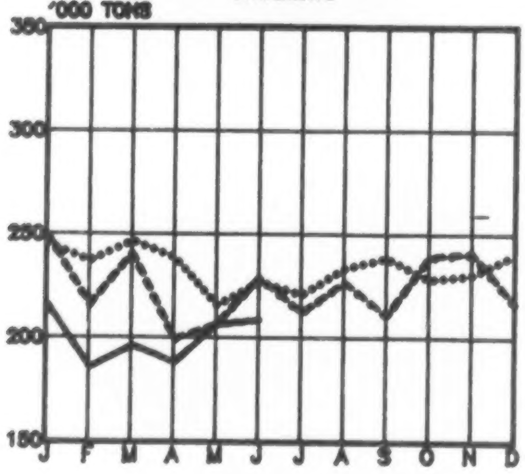
	EXPORTS TO CANADA *							
Pulpwood, Roundwood (in cubic meters)	62,892	1,120	24,738	1,796	61,674	2,096	468,322	1113.7
Pulpwood chips	28,218	1,241	17,172	804	19,893	929	189,578	732.4
Wood Pulp, Total	352,896	141,272	27,432	13,721	29,776	14,705	374,267	12.1
Cotton Pulp & Other Pulp	6,215	4,249	336	344	462	461	4,453	-36.8
Waste Paper	284,379	38,565	63,718	9,503	66,785	11,711	639,996	102.4
Paper, Board & Products, Total	1,083,228	763,613	99,907	111,449	106,995	115,966	1,193,853	18.0
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	754,575	497,470	74,002	66,547	78,709	69,963	898,132	28.8
Paper, Paperboard & Products	1,062,560	755,810	99,662	111,306	106,684	115,738	1,191,660	20.2
Paper & Paperboard, Only	733,907	469,668	73,756	68,405	78,396	69,725	896,960	32.4
Paper, Total	371,206	340,312	42,524	49,236	40,811	47,481	515,585	49.0
Newsprint	8,316	5,891	1,532	891	1,211	872	19,004	156.6
Printing, Writing & Rel. Pap.	228,021	222,055	30,546	34,676	30,239	34,660	370,068	75.9
Pack. & Ind. Conv. Paper	66,390	29,624	3,654	2,707	4,043	2,730	48,540	-4.9
Special Industrial Paper	62,645	72,955	5,421	9,659	4,248	8,191	58,902	-12.7
Tissue Paper	6,834	9,787	1,171	1,302	1,070	1,228	13,071	106.1
Paperboard, Total	362,701	149,356	31,232	19,170	37,587	22,244	380,374	16.0
Convtd Paper&Paperbd Products	326,653	266,143	25,906	42,901	28,286	46,013	296,720	-6.1
Wet Machine Board	1,626	660	0	0	0	0	0	-100.0
Construction Paper & Board	19,040	7,143	246	142	311	226	2,173	-87.9

SOURCE: Bureau of Census, Department of Commerce.

E – Estimate of tonnage based on square foot data

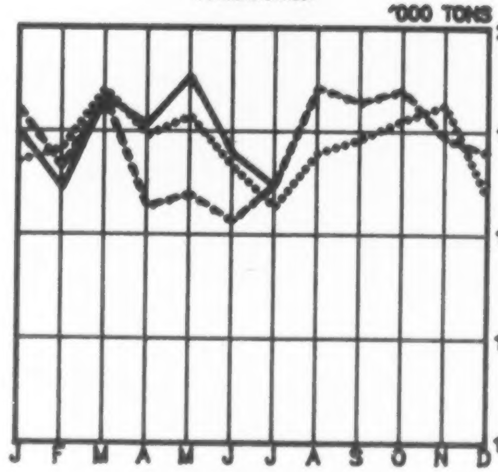
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



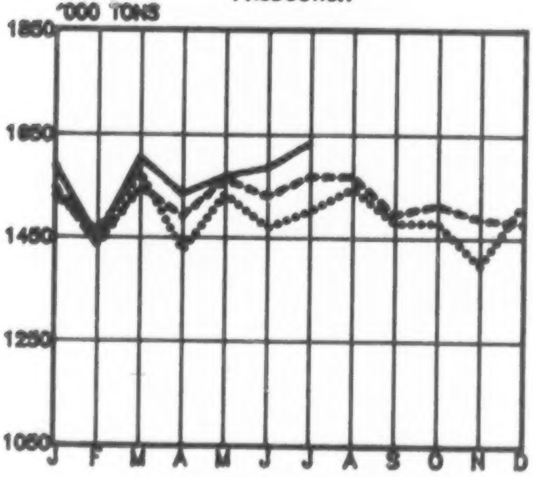
OTHER PAPER

PRODUCTION



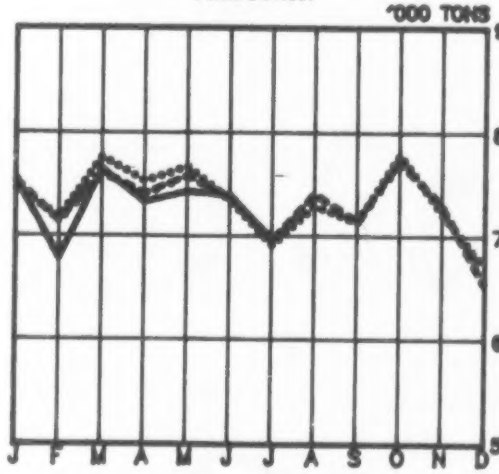
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



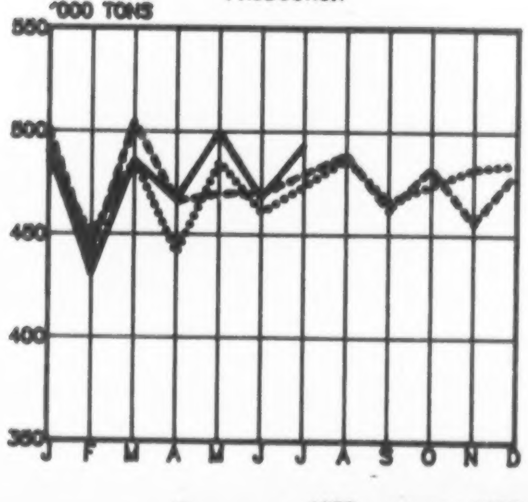
RECYCLED PAPERBOARD

PRODUCTION



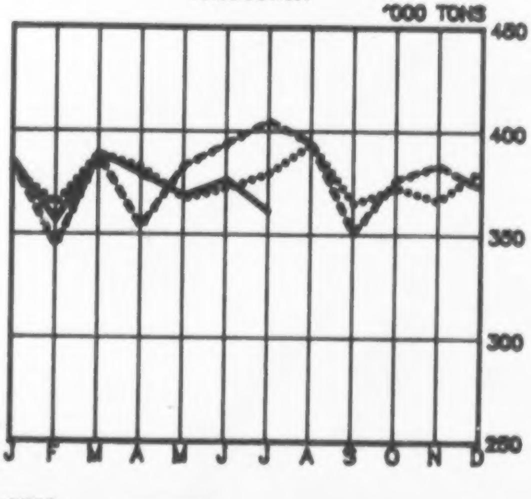
SEMICHEMICAL PAPERBOARD

PRODUCTION



SOLID BLEACHED PAPERBOARD

PRODUCTION



1988 ········· 1989 ------ 1990 ———

PULP, PAPER AND PAPERBOARD IMPORTS		YEAR 1989		MAY 1990		JUNE 1990		Annual Rate YTD 1990 Tons (1)	% Change from same Period Last Year
		Tons	$000	Tons	$000	Tons	$000		
Pulpwood Roundwood (cubic meters)		211,081	4,582	0	0	0	0	0	-100.0
Pulpwood Chips		806,381	27,759	72,242	2,142	44,565	1,484	700,384	-26.4
Total All Imports	A	18,288,860	11,352,263	1,554,100	949,969	1,494,992	936,821	18,506,446	0.8
Wood Pulp Total	A	5,005,100	2,980,642	427,910	258,818	363,722	216,192	4,951,488	-1.8
Waste Paper		172,575	33,107	14,877	4,172	9,417	1,943	137,069	-20.7
Other Fibrous Materials		11,254	8,518	643	407	1,263	1,022	14,856	-1.7
Paper Board & Products Total	A	13,099,931	8,329,906	1,110,671	688,774	1,120,890	716,764	13,402,228	2.2
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	A	12,537,474	7,231,848	1,073,564	602,338	1,086,423	634,852	12,878,856	3.9
Paper Ppbd & Prds ex Cnst&WMB	A	12,910,205	8,279,503	1,099,927	685,446	1,108,749	713,186	13,274,091	2.9
Paper & Paperboard Only	A	12,347,748	7,181,244	1,062,820	599,006	1,074,579	631,073	12,848,817	4.7
Paper Total	A	11,814,263	6,900,798	1,012,499	575,293	1,021,837	606,728	12,258,770	4.5
Newsprint	A	8,553,401	4,379,613	740,685	367,587	709,962	367,961	8,686,204	2.2
Printing & Writing	A	2,732,978	1,996,141	226,786	160,662	262,504	190,003	3,022,980	10.7
Uncoated Groundwood		1,304,114	817,785	99,960	60,944	108,171	67,580	1,305,561	-0.5
Coated Print & Impreg. Pap.	A	774,022	632,484	67,241	52,596	87,745	69,436	946,243	26.0
Uncoated Free Sheet	A	583,077	482,404	53,406	40,147	59,742	45,093	686,401	17.5
Thin (except Cigarette)		12,711	15,200	840	861	863	1,006	10,958	-14.3
Bristols		59,062	68,267	5,340	6,022	6,164	6,891	64,526	3.0
Total Pkg & Other Paper		407,087	414,353	36,007	38,298	37,565	38,363	432,002	11.8
Unbleached Kraft Paper		239,303	116,011	18,953	9,330	22,634	10,958	234,586	1.2
Other Pkg. & Indust. Paper		167,785	298,342	16,066	28,969	14,921	27,405	197,417	27.7
Tissue		120,797	110,691	10,021	8,745	11,816	10,380	115,884	0.5
Paperboard, Total		533,486	290,446	50,321	23,715	52,742	24,345	592,047	9.5
Test or Containerboard		85,048	34,401	9,025	3,827	10,980	4,772	130,373	68.1
Semi-Chemical Corrugating		118,176	36,462	9,783	2,795	8,613	2,507	111,714	-15.7
Other Paperboard		330,262	209,584	31,513	17,094	33,149	17,066	349,960	5.8
Convtd Paper&Paperbd Products		562,457	1,098,259	37,107	86,436	34,167	82,112	425,274	-32.2
Paper Products, Total		470,471	924,729	27,140	69,111	24,837	65,447	321,810	-39.2
Paperboard Products, Total		91,986	173,529	9,967	17,327	9,330	16,665	103,463	5.9
Wet machine Board		606	580	124	101	100	78	1,249	110.9
Construction Paper & Board E		189,119	49,824	10,620	3,227	11,745	3,501	126,891	-41.5
Notes									
Other: No Weight Avail. ($000)			136,624		11,163		11,760	119,896	-2.8
Total Imports Incl. Other($000)			11,488,886		961,132		947,681	11,585,680	1.3

NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

PULP, PAPER AND PAPERBOARD EXPORTS	YEAR 1989		MAY 1990		JUNE 1990		Annual Rate YTD 1990 Tons (1)	% Change from same Period Last Year
	Tons	$000	Tons	$000	Tons	$000		
Pulpwood, Roundwood (cubic meters)	137,917	3,475	41,203	2,692	94,454	2,787	671,116	347.0
Pulpwood Chips	4,357,811	368,154	416,311	37,672	439,257	39,474	4,329,583	-1.5
Total All Exports	18,833,606	8,603,945	1,573,914	733,795	1,907,386	792,782	19,724,835	4.1
Wood Pulp,Total	6,231,172	3,512,604	442,943	244,483	560,237	296,483	5,898,355	-7.2
Cotton Pulp and Other Pulp	122,046	100,510	7,742	6,861	27,478	15,327	137,303	10.1
Waste and Old Paper	5,980,620	729,797	575,234	69,234	744,984	67,700	6,652,020	11.9
Paper, Board & Products,Total	6,299,769	4,261,035	547,906	413,238	574,069	413,272	6,837,158	7.8
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	5,259,733	2,982,686	461,796	281,523	489,697	283,307	5,804,141	10.2
Paper, Ppbd & Prod ex Cnst&WMB	6,263,491	4,246,277	547,239	412,732	573,851	412,781	6,827,980	8.3
Paper & Paperboard, Only	5,223,456	2,967,928	461,009	281,017	488,950	282,816	5,794,984	10.8
Paper, Total	1,465,752	1,233,527	131,731	122,179	113,309	110,439	1,501,581	2.1
Newsprint	624,798	357,361	50,500	26,421	32,844	17,095	516,657	-16.9
Printing & Writing	478,201	465,168	55,427	56,977	54,307	59,141	676,796	43.3
Uncoated Groundwood	88,056	64,766	8,284	5,045	6,615	5,360	75,136	-20.7
Clay Coated Paper	168,538	131,418	18,244	18,013	18,988	18,797	218,461	31.7
Uncoated Free Sheet	122,348	166,830	18,916	24,581	17,792	24,054	235,232	118.0
Other Printing & Writing	99,260	102,154	11,982	11,338	10,912	10,931	149,970	43.7
Total Pkg. & Other Paper	342,041	380,790	23,345	33,676	24,307	32,038	276,396	-21.6
Unbleached Kraft	126,818	60,318	9,039	4,364	10,568	4,987	113,033	-8.4
Other Pkg. & Indust. Paper	216,223	320,472	14,306	29,313	13,739	27,051	163,364	-30.7
Tissue	20,712	30,187	2,450	3,104	1,851	2,165	31,710	36.3
Paperboard, Total	3,757,704	1,734,402	329,279	158,838	375,561	172,377	4,293,403	14.2
Solid Wood Pulp	3,572,758	1,646,152	306,496	146,968	347,254	158,684	4,040,000	12.9
Total Linerboard	2,499,716	935,364	218,801	81,689	263,564	97,938	2,972,120	18.0
Bleached Kraft Linerboard	283,113	127,787	17,098	8,727	18,507	7,857	289,621	13.8
Unbleached Kraft Linerbd	2,216,603	807,578	201,703	72,962	245,057	90,081	2,682,499	18.6
Other Unbleached Kraft	246,575	113,315	24,831	14,230	21,343	12,071	273,631	12.4
Other Bleached Kraft	795,306	582,979	60,433	50,099	57,166	48,849	753,702	-4.1
Semi-Chemical Corrugating	31,162	14,494	2,431	950	5,182	1,826	40,548	30.3
Recycled Paperboard	184,947	88,250	22,783	11,889	28,297	13,693	253,403	36.5
Convtd Paper&Paperbd Products	1,040,036	1,278,349	86,229	131,715	84,991	129,964	1,033,016	-3.9
Paper Products, Total	473,435	832,806	35,053	82,053	34,978	81,640	416,389	-15.3
Paperboard Products, Total	566,601	445,543	51,176	49,662	50,013	48,325	616,627	8.8
Wet Machine Board	2,889	1,256	23	9	48	18	733	-78.4
Construction Paper & Board E	33,368	13,501	734	497	790	473	8,444	-74.8
Notes								
Other: No Weight Avail. ($000)		23,865		3,752		4,448	44,399	103.2
Total Exports Incl. Other($000)		8,627,811		737,547		797,230	9,245,348	8.2

SOURCE: Bureau of Census, U.S. Department of Commerce. E – Incl. estim. of tonnage based on square foot data.

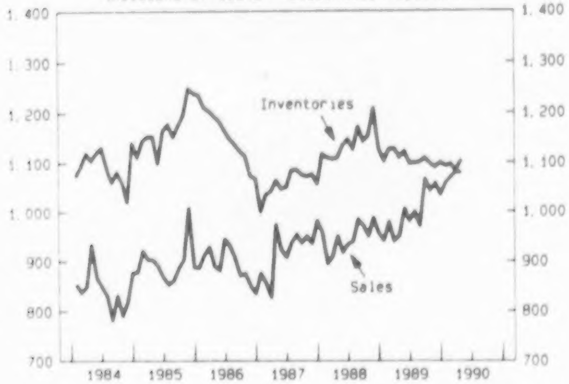
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES 1982 = 100	YEAR		APR 1990	MAY 1990	JUNE 1990	JULY 1990	Annual Rate Y-T-D 1990	% Change from same Period Last Year
	1988	1989						
Pulp, Paper and Products except Building Grades	124.8	132.4	133.4	132.9	132.8	132.6	133.1	0.9
Pulp Paper & Products, ex. Building Grades & ex. Waste Paper *	123.8	132.0	133.2	132.8	132.7	132.6	132.9	1.1
Total Wood Pulp	136.7	157.4	154.3	152.8	152.0	151.1	155.5	-0.1
Total Paper	123.2	129.6	127.8	127.9	128.8	129.1	128.1	-1.7
Writing Paper, exc. Newsprint	123.4	130.5	128.3	128.5	128.9	129.3	128.4	-2.3
Newsprint	127.6	122.5	116.1	115.0	121.0	121.6	117.2	-5.9
Total Paperboard	133.2	140.1	137.8	135.8	135.4	134.9	137.3	-2.2
Total Paper and Paperboard *	126.4	132.9	130.9	130.4	130.9	130.9	131.0	-1.8
Converted Products	123.0	131.7	135.6	135.4	135.0	134.9	134.9	3.5
Waste Paper	183.6	157.1	145.3	141.0	135.9	133.3	143.7	-9.0
All Commodities	106.9	112.2	114.0	114.5	114.2	114.3	114.4	2.1
Industrial Commodities	106.3	111.6	113.1	113.3	113.1	113.2	113.4	1.9

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

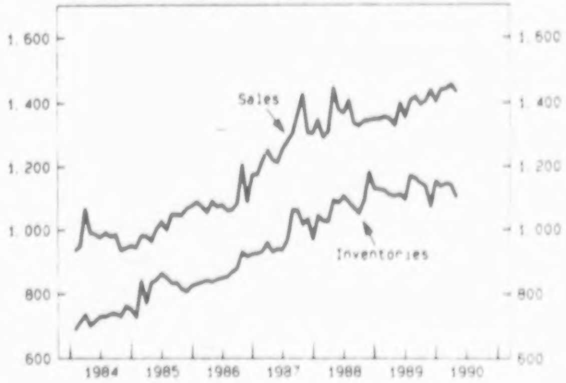
STATIONERY WHOLESALER SALES AND INVENTORIES

(Millions of 1984$ - Seasonally Adjusted)



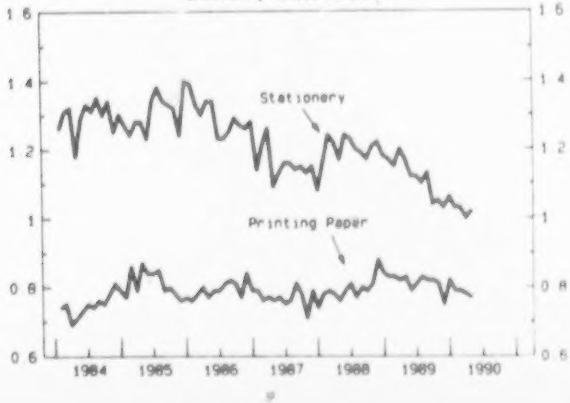
PRINTING PAPER WHOLESALER SALES AND INVENTORIES

(Millions of 1984$ - Seasonally Adjusted)



PRINTING PAPER AND STATIONERY WHOLESALERS

Inventory Sales Ratios



of other packaging and industrial papers -- bleached kraft, specialty packaging and special industrial papers -- were reported up 3.3%.

Paperboard: The month-to-month totals of paperboard production during the first seven months of 1990 virtually matched their year-ago levels (see chart on page 4), with the year-to-date total up 0.7%. Gains were concentrated in the containerboard grades -- linerboard and corrugating medium -- largely reflecting strength in production for export. Production of containerboard for domestic use rose by 0.4% in this period, compared to a 1.4% increase in shipments of fiber boxes. These gains were more or less consistent with market activity: production of total non-durable goods in this period was up 1.4%, while total consumer goods production (which includes consumer durables) attained a 0.8% increase. Total production of all the containerboard grades was 1.4% above its year-ago level.

The rise in containerboard production was largely offset by a 1.0% drop in total boxboard. Total folding boxboard production fell 1.5. Recycled folding boxboard held to within 1% of its year-ago level, while the solid bleached grades declined 6% and the unbleached grades 7%. As in containerboard, exports were a major support to domestic production. Among the major non-packaging grades, gypsum wall board and panelboard were 11% below their corresponding 1989 totals.

Monthly trends of paperboard production by major furnishes are shown in the charts on page 8, detailed data on page 3.

FIBROUS MATERIALS

Paper and paperboard producers continue to expand their use of waste paper as a paper-making fiber (see the lower right-hand chart on page 4). The January-June 1990 waste paper consumption total was 6.1% ahead of its comparable 1989 level (see table on page 5). Consumption of wood pulp at paper and paperboard mills showed a 1.1% expansion in the 1990 period.

Although total market pulp production was down 2% in the first half of 1990, with paper grade chemical market pulp off 1.4%, the June 1990 level was sharply above the February-May 1990 monthly average (see chart on page 4). Production of chemical paper market pulp in July held to within 4,000 tons of its June level, but lower dissolving pulp output held total market pulp in July to 2% below the June high.

The record-high June-July 1990 production totals brought the year-to-date level a shade above its corresponding 1989 total. However, much of the increase went into producers' inventories, which moved up to 25 days of supply. Consumers' inventories of purchased wood pulp were at 29 days of consumption as of the end of July, compared to 38 days in mid-1989.

Shipments of chemical paper grade market wood pulp were down 2.2% in the January-July 1990 period, largely because of lower shipments to the domestic market. Export shipments were off 0.4%, but with gains in shipments to Western Europe, Latin America and the Asian/African region offset by year-to-year losses in shipments to Japan.

DISTRIBUTION

Two major wholesaler groups handle printing-writing papers: stationery suppliers and printing-writing paper distributors. The combined sales of these two groups, in real terms, have been growing at a rate of nearly 6% a year since 1984. In terms of current dollars, printing-writing paper wholesaler sales of all lines run about $20 billion per year; stationers' about $16 billion. Although sales at printing-writing dealers have been expanding at a rate more than twice that of stationery suppliers, stationers' sales strengthened in recent months.

Stationers have been steadily bringing inventories into closer balance with sales. Whereas early in 1984 the inventory/sales ratio of that group was about 1.30, (that is, inventories were 1.3 times sales), by early 1990 that ratio had been reduced to nearly 1.00. By contrast, the printing-writing wholesaler inventory to sales ratio fluctuated between 0.7 and 0.9 during the same period. However, in recent months this group's inventory/sales ratio remained relatively steady.

Possible explanations for these trends are:

Stationers carry a wider variety of office products, many of which experience only modest growth, while printing-writing suppliers have been concentrating on a narrower range of products which have enjoyed strong growth.

The advent of sophisticated office reprographics systems that use cut-size plain paper has reduced the need for specially printed forms, labels and similar items that stationers generally carry. This has allowed stationers to stock fewer specialties and standardize their lines. It has probably also applied some minor downward pressure on paper demand.

While it is possible that we will see a continued decline in the stationers' inventory/sales ratio, a quickening sales pace suggests that some inventory stabilization may be necessary. Thus, whatever weakness in paper demand that may have developed because of stationers' efforts to reduce stocks may soon come to an end.

The charts at the bottom of page 10 summarize these trends.

MONTHLY STATISTICAL SUMMARY INSERT
VOL. 68, NO. 8
AUGUST, 1990

PRODUCTION (000 TONS)

	(P) JULY 1990	(R) JUNE 1990	JULY 1989	FIRST 7 MONTHS 1990	1989	% CHANGE YR TO DATE 1990/1989
PAPER GRADES						
Newsprint	560	539	522	3,791	3,488	8.7
Printing & Writing	1,867	1,766	1,708	12,896	12,488	3.3
Uncoated Groundwood (s)	157	141	147	1,021	1,001	2.0
Coated Groundwood (s)	356	342	318	2,397	2,300	4.2
Coated Free Sheet (s)	277	259	257	1,869	1,791	4.4
Total Coated Paper (s)	633	601	575	4,266	4,090	4.3
Uncoated Free Sheet Paper (s)	964	904	857	6,707	6,463	3.8
Thin Paper (s)	14	15	20	131	148	-11.4
Cotton Fiber Paper (s)	11	14	11	97	96	0.5
Bleached Bristols (s)	89	92	100	674	689	-2.2
Tissue Paper	480	479	458	3,345	3,256	2.7
Total Pkg & Other Paper	386	394	391	2,724	2,827	-3.7
Unbl. Kraft Paper (s)	206	208	212	1,403	1,549	-9.4
Other Paper	179	186	179	1,321	1,278	3.3
TOTAL PAPER	3,293	3,177	3,080	22,755	22,059	3.2
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,735	1,681	1,687	11,664	11,435	2.0
Unbleached Kraft Linerboard	1,631	1,583	1,568	10,948	10,664	2.7
Other Unbl. Kraft Paperboard	104	98	119	717	771	-7.0
Semichemical Paperboard	493	467	479	3,330	3,325	0.2
Bleached Paperboard	360	376	404	2,610	2,647	-1.4
Recycled Paperboard	696	738	694	5,099	5,150	-1.0
TOTAL PAPERBOARD	3,284	3,262	3,264	22,704	22,557	0.7
TOTAL PAPER AND PAPERBOARD	6,578	6,440	6,344	45,459	44,615	1.9

WOOD PULP (ALL GRADES)	JUNE 1990	MAY 1990	JUNE 1989	FIRST 6 MONTHS 1990	1989	% CHANGE YR TO DATE 1990/1989
Dissolving & Special Alpha	114	103	101	651	685	-5.1
Bleached Sulfite) Unbleached Sulfite)	136	134	129	793	787	0.8
Bleached & Semi-Bl. Sulfate	2,235	2,211	2,244	13,588	13,527	0.5
Unbleached Sulfate	1,829	1,814	1,795	10,939	10,806	1.2
Semichemical	341	373	353	2,204	2,188	0.8
Groundwood & Thermomechanical	519	522	480	3,146	2,944	6.9
TOTAL PULP DIVISION DATA	5,173	5,156	5,102	31,322	30,937	1.2

(s) - Shipments
P - Preliminary
R - Revised

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

INDUSTRY DATA AUGUST 31, 1990	1988	1989	1990	1990 R	1990 P	AN RATE Y-T-D 90	% CH/ SAME PD 89
PAPER AND PAPERBOARD -- Tons (000)			MAY	JUNE	JULY		
Total Production (API)..........: excluding :..........	76,469	76,713	6,576	6,440	6,578	77,930	1.9
Total Seasonally Adjusted..........: construction :..........			6,500	6,483	6,647	78,024	1.9
Imports (including Products).......: and wet :......E..........	12,788	12,910	1,100	1,109	1,100	13,264	5.1
Exports (including Products).......: machine :......E..........	5,559	6,264	547	574	570	6,830	8.5
Apparent Consumption...............: grades :..........	83,697	83,359	7,052	7,018	7,177	84,364	1.7
Paper Production % Tonnage Capacity..........	95.4	92.6	91.2	91.1	91.4	92.6	-
Paperboard Production % Tonnage Capacity..........	94.5	93.5	92.1	94.3	91.6	93.2	-
PAPER, PAPERBOARD AND PRODUCTS			APRIL	MAY	JUNE		
Imports.....:Including Construction and :..........	13,110	13,101	1,142	1,111	1,121	13,402	2.2
Exports.....: WMB Grades (excl. HPB) :..........	5,691	6,300	616	548	575	6,837	7.8
MARKET WOOD PULP PRODUCTION - Tons (000)..........	8,565	8,664	674	698	783	8,852	-2.0
TOTAL WOOD PULP PRODUCTION - Tons (000)..........	61,161 f	61,996 f	5,254	5,156	5,173	62,645	1.2
WOOD PULP IMPORTS - TONS (000)..........	5,036	5,005	418	428	364	4,951	-1.8
WOOD PULP EXPORTS - TONS (000)..........	5,528	6,231	536	443	560	5,898	-7.2
RAW MATERIALS CONSUMPTION - Tons (000)							
PAPER AND BOARD MILLS....: excluding :..........			APRIL	MAY	JUNE		
Wood Pulp..........: consumption for :..........	60,294	60,727	5,212	5,110	4,923	61,286	1.1
Waste Paper..........: construction & :..........	19,021	20,010	1,739	1,799	1,798	21,050	6.1
TOTAL..........: WMB grades :..........	79,315	80,737	6,950	6,909	6,721	82,335	2.4
PULPWOOD CONSUMPTION Cords (000) Amer. Pulpwd. Assn	95,497	96,414	8,260	8,113	8,042	96,834	1.1
EMPLOYMENT (000)			MAY	JUNE	JULY		
Paper and Allied Products.........Total..........	692.6	697.1	696.5	705.7	704.7	697.7	0.3
Pulp, Paper and Board Mills........Total......E..........	247.2	247.1	245.8	251.1	N.A.	N.A.	N.A.
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			MAY	JUNE	JULY		
Paper and Allied Products..........	11.66	11.96	12.23	12.35	12.30	12.21	2.6
Pulp, Paper Mills......E..........	14.31	14.71	15.15	15.06	N.A.	N.A.	N.A.
Paperboard Mills.......E..........	14.49	14.76	15.31	14.97	15.07	15.06	3.2
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1989 Q4	1990 Q1	1990 Q2		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	10.92	15.58	17.44	17.56	18.59	17.36	11.4
INDEX OF OUTPUT PER MAN-HOUR (1977=100)			MAY	JUNE	JULY		
:IN PULP, PAPER :...Production Workers..........	146.0	146.7	148.1	146.9	N.A.	N.A.	N.A.
:AND BOARD MILLS:...All Employees..........	142.8	143.5	145.2	144.1	N.A.	N.A.	N.A.
PAPER AND ALLIED PRODUCTS (Million $)			APRIL	MAY	JUNE	JUNE	
Industry Shipments (Dept. of Commerce)*..........	127,718	130,501	10,801	11,031	10,969	130,462	-0.2
Pulp, Paper and Paperboard*..........	57,177	57,700	4,559	4,724	4,819	55,896	-4.4
Inventories (End of Period) - Total Industry*..........	12,085	12,571	12,851	12,696	12,709	12,709	3.2
Pulp, Paper and Paperboard*..........	4,325	4,980	5,000	5,040	5,085	5,085	7.6
PAPER AND ALLIED PRODUCTS COMPANIES (Million $)			1989 Q4	1990 Q1	1990 Q2		
Sales (Corporations Only)..........	107,221	113,573	28,861	28,534	28,844	114,756	1.6
Earnings (Corporations Only)..........	8,061	7,047	1,160	1,369	1,630	6,036	-24.8
Depreciation (Corporations Only)..........	4,625	5,010	1,301	1,347	1,341	5,376	9.8
Net Worth (Corporations Only)..........	42,940	45,642	45,642	48,519	45,597	45,597	1.4
PRICE INDEXES (Bureau of Labor Stats)1982=100			MAY	JUNE	JULY		
Pulp, Paper & Products, ex. Building Grades..........	124.8	132.4	132.9	132.6	132.6	133.1	0.9
Wood Pulp..........	136.7	157.4	152.8	152.0	151.1	155.4	-0.1
Waste Paper..........	183.6	157.1	141.0	135.9	133.0	143.7	-9.0
Paper..........	123.2	129.6	127.9	128.8	129.1	128.1	-1.7
Paperboard..........	133.2	140.1	135.8	135.4	134.9	137.2	-2.2
PAPER DEMAND (INDEXED: 1967=100)			MAY	JUNE	JULY		
Total Paper Production *..........	103.9	103.6	107.6	104.9	109.9	106.5	3.2
Paper New Supply *..........	103.8	102.3	105.7	103.8	85.4	102.0	0.6
Demand Indicators - (Weighted Average) *..........	103.8	107.8	110.6	110.5	110.7	110.3	2.7
Production of Nondurable Goods.........*....(21.2%)..........	103.6	106.4	107.4	107.6	108.0	107.6	1.4
Disposable Income..........*....(23.9%)..........	104.4	107.2	108.5	108.8	109.1	108.6	1.9
Total Printing and Publishing..........*....(54.9%)..........	103.6	108.6	112.8	112.4	112.5	112.0	3.6
PAPERBOARD DEMAND (INDEXED: 1967=100)			MAY	JUNE	JULY		
Total Paperboard Production *..........	101.7	102.6	102.3	104.4	104.7	103.4	0.6
Production for Domestic Use	102.0	102.7	100.9	103.3	114.5	103.8	0.9
Demand Indicators - (Weighted Average) *..........	104.7	107.2	108.0	108.7	108.6	107.8	0.7
Production of Consumer Goods..........*....(62.06%)..........	104.0	106.6	107.4	108.1	107.7	107.3	0.8
Production of Equipment..........*....(5.75%)..........	107.5	112.3	116.2	118.5	115.8	114.7	2.3
Production of Materials..........*....(32.19%)..........	105.6	107.4	107.8	108.4	108.1	107.6	0.1
MARKET DATA			APRIL	MAY	JUNE	JUNE	
Consumption by Publishers - Tons (000)..........	13,497	13,493	1,144	1,179	1,1[illegible]	13,391	1.2
Newspaper Pub. and Printing Empl. Total(000)..........	475	473	475	477	480	477	1.0
Magazine Advertising Pages (PIB, Inc.)	172,580	179,795	16,796	15,302	14,080	171,063	-4.3
Wholesalers Sales and Inventories (Million $)							
Total Paper & Pap. Prdcts.,ex Wallpaper..Sales..........	52,377	56,803	4,161	4,331	4,259	60,182	8.4
Inventories (End of Period)..........	4,436	4,508	4,087	3,982	4,052	4,052	-10.0
FIBRE BOX DATA (Fibre Box Association)			MAY	JUNE	JULY		
Fibre Box Shipments (Million square feet)..........	308,507	313,400	27,360	26,286	26,444	317,431	1.4
Container'bd Inventory at Mill & Plant (000 Tons)..........	2,553	2,589	2,842	2,503	2,640	2,640	-1.8
RETAIL TRADE (Billion $)							
Total Retail Sales *..........	1,822	1,711	147.8	148.4	149.5	1,789	5.5
Nondurable Goods Stores Sales *..........	995	1,062	94.3	95.6	95.5	1,136	8.2
GENERAL ECONOMIC DATA			MAY	JUNE	JULY		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*..........	105.4	108.1	109.4	109.9	109.9	109.0	0.9
PRODUCER PRICES (ALL COMMODITIES) (INDEX 1982=100)..........	106.9	112.2	114.5	114.2	114.3	114.4	2.1
CONSUMER PRICES (ALL ITEMS-URBAN CON.) (1982-4=100)..........	118.3	124.0	129.2	129.9	130.4	128.9	4.9
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billion$)			1989 QIV	1990 Q1	1990 Q2		
G.N.P. or Expenditure - Current $..........	4,874	5,201	5,289	5,375	5,452	5,414	5.4
G.N.P. or Expenditure - 1982 $..........	4,017	4,118	4,133	4,151	4,163	4,157	1.3
PAPER AND PAPERBOARD CONSUMPTION - POUNDS PER CAPITA	677	667				674	

f - Wood Pulp Prod exc del., explo & scr. R - Revised E - Last month estimated by API

Y - Full year estimated by Dep't of Commerce * Seasonally Adjusted

A2500-2

Paper
Paperboard
& Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol.68 No.9 SEPTEMBER 1990

PAPER AND PAPERBOARD PRODUCTION: NO CHANGE

Events in Kuwait have yet to show any significant impact on U.S. demand for paper and paperboard. Weekly data through the end of the third week in September indicate that the seasonally adjusted rate of production held close to its August rate.

Total paper and paperboard production has exceeded its year-ago levels since April 1990. January-August seasonally adjusted production was 78.0 million tons per year, 1.8% ahead of its comparable 1989 total.

Paper: Seasonally adjusted paper production spiked up in July as mills shifted shut-downs for maintenance, repair and vacations away from the traditional July period. Production moved back to trend in August and the eight-month 1990 unadjusted total was 3.0% ahead of its comparable 1989 level.

The various paper grades continue to follow the trends evident since the start of this year. Newsprint production, buoyed by the introduction of three new machines, was 9.3% over its year-ago level in the January-August 1990 period (see table on page 3 and chart on page 6), while shipments rose 10%. Total consumption of newsprint by publishers gained 1%, while inventories were at 41 days of supply, down 3 days from July and 1 day from August 1989.

Imports of newsprint (API basis) were only slightly below last year's totals, and exports declined. The gain was strong enough to push the new supply total (production plus imports less exports) up about 5%, indicating some growth in use of newsprint outside the newspaper market.

The printing-writing paper grades also contributed to the strength in total paper demand. New orders for the printing grades -- uncoated groundwood, coated and free sheet papers -- were 2 to 3% ahead of shipments, with free sheet papers showing a particularly large increase in the unfilled order backlog (see table page 3).

Note: The 1990 edition of the Statistics of Paper, Paper and Wood Pulp has been published and mailed to member companies. Copies are available to others at $325.00 each ($335.00 for overseas delivery) from the Economics Department, American Paper Institute, 260 Madison Avenue, New York, NY 10016.

Copyright © 1990 American Paper Institute 260 Madison Avenue New York, N.Y. 10016

Data on coated papers point to strength in coated groundwood paper shipments even while magazine advertising pages held to a flat trend (see attached Data Sheet).

Tissue paper output has been moving up a bit faster than real disposable income (shown on the Data Sheet as a component of the paper demand index). Unbleached kraft paper production, however, is moving downward under the pressure of weakening demand for bags and sacks and rising import levels. Imports of these grades, largely from Canada, gained an estimated 15% in the first eight months of 1990, and are now equivalent to 11% of domestic production, compared to 9% one year ago.

Paperboard: The rate of paperboard production held steady at 39 million tons per year during the first 8 months of 1990, 0.5% above the 8-month 1989 total. Production for export offered a major support, gaining 15%, with the unbleached kraft grades up 16.2% and the bleached kraft grades 10.5%.

Absent these exports, production for domestic use was down 0.5%, with a small (0.2%) gain in containerboard for fiber boxes offset by a 3.1% decline in packaging boxboard and a 2% decline in boxboard for other uses.

The weakness in boxboard demand can be traced largely to folding boxboard, particularly the solid bleached and unbleached kraft grades. Production of recycled boxboard just about matched its year-ago total. Milk carton and food service board showed a small gain, mainly in the milk carton grades. The declines in production of boxboard for domestic use were partly offset by gains in boxboard for export (see table on page 3).

FIBROUS RAW MATERIALS

Although use of waste paper at paper and paperboard mills was up 6.1% from its year-ago level in the first 7 months of 1990, compared to a 1.6% increase in wood pulp, there was an uptick in total wood pulp consumption in July (see table on page 5 and chart on page 4), reflecting the comparable movement in total paper production.

Production of chemical paper grade market pulp moved ahead of its year-ago total in the first 6 months of this year, after trailing for most of the year. Shipments followed a similar pattern, even while inventories at pulp mills moved up sharply and consumers reduced their purchased wood pulp inventories.

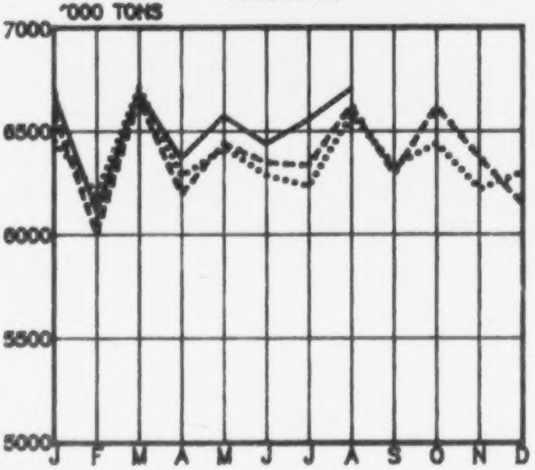
The gain in shipments was centered on those to Western Europe, Latin America and the Asia/Africa/Oceania nations. Domestic users and Japan reduced their purchases of market pulp from U.S. mills.

PAPER AND PAPERBOARD STATISTICS PRODUCTION, SHIPMENTS AND ORDERS (Thousands of Tons)	YEAR		MAY	JUNE	JULY (R)	AUGUST (P)	Annual Rate Y-T-D	% Change From Same Period
	1988	1989	1990	1990	1990	1990	1990	Last Year
PAPER								
Newsprint – Production	5,982	6,088	545	539	560	577	6,552	9.3
– Shipments	5,969	6,079	553	536	560	576	6,562	10.0
Printing & Writing: Total Shipments	21,860	21,607	1,840	1,767	1,852	1,922	22,206	2.9
Groundwood Paper – Shipments	1,624	1,743	138	141	150	152	1,750	1.2
– New Orders	1,654	1,773	158	173	155	170	1,808	3.0
– Unfilled Orders	208	210	170	194	197	216	216	0.5
Coated Groundwood – Shipments	4,204	4,059	347	343	358	372	4,156	4.3
Coated Free Sheet – Shipments	3,155	3,157	273	259	268	289	3,223	2.9
Total Coated Papers – Shipments	7,359	7,215	620	601	625	661	7,379	3.7
– New Orders	7,412	7,284	614	648	639	670	7,528	3.7
– Unfilled Orders	751	824	761	788	800	809	809	–5.0
Unctd Free Sheet – Shipments	11,277	11,081	957	904	946	975	11,498	3.3
– New Orders	11,298	11,170	1,007	989	909	998	11,756	6.9
– Unfilled Orders	790	785	831	895	831	866	866	35.8
Thin Papers – Shipments	281	245	17	15	18	19	230	–9.4
Cotton Fiber Paper – Shipments	169	161	14	14	12	13	165	0.8
Bleached Bristols – Shipments	1,150	1,163	94	92	101	103	1,184	–0.2
Tissue Paper – Production	5,476	5,636	494	479	482	501	5,771	2.8
Total Packaging & Other Paper	5,047	4,925	406	394	387	402	4,691	–3.8
Unbl. Kraft Paper – Shipments	2,800	2,681	206	208	208	198	2,403	–9.8
Other Paper – Production	2,247	2,243	201	186	179	205	2,288	3.3
TOTAL PAPER PRODUCTION – UNADJUSTED	38,366	38,256	3,284	3,178	3,281	3,402	39,220	3.0
TOTAL PAPER PRODUCTION – SEAS ADJ			3,308	3,225	3,368	3,297	39,309	3.1
PAPERBOARD – PRODUCTION								
Containerboard	26,225	26,428	2,282	2,251	2 331	2,301	27,006	1.4
Cont'bd For Dom Use for Fibre Boxes	23,563	23,752	2,013	1,997	2,082	2,035	23,980	0.2
Total Linerboard	16,177	16,399	1,371	1,390	1,448	1,425	16,557	–0.1
Unbleached Kraft	15,601	15,833	1,333	1,354	1,411	1,376	16,106	0.8
Solid Bleached	170	178	9	10	10	12	132	–31.4
Recycled	407	388	30	26	27	37	319	–20.0
Corrugating Medium	7,351	7,339	640	607	633	6	7,415	0.8
Semichemical	5,528	5,554	483	450	477	468	5,553	–0.5
Recycled	1,823	1,785	158	156	156	141	1,862	4.9
Container Chip and Filler	35	14	1	0	1	0	8	-50.5
Other Containerboard for Dom Use	320	307	33	22	27	22	290	–8.0
Containerboard for Export	2,342	2,369	236	231	222	245	2,736	14.8
Boxboard	11,878	12,029	1,010	1,012	946	1,005	11,998	–1.5
Boxboard for Packaging for Dom Use	7,014	7,076	595	586	560	579	6,995	–3.1
Folding Boxboard	5,293	5,370	442	432	415	428	5,197	–5.0
Solid Bleached	2,017	1,960	159	156	151	143	1,851	–8.1
Unbleached Kraft	924	987	83	75	77	76	933	–9.9
Recycled	2,353	2,403	200	201	187	209	2,413	–0.3
Set-up Boxboard for Dom Use	279	288	27	25	20	27	313	5.6
Milk Carton & Food Service Dom Use	1,442	1,419	126	129	125	125	1,486	2.2
Other Boxboard for Domestic Use	4,075	4,089	341	346	321	341	4,041	–2.0
Boxboard for Export	789	863	75	80	65	84	962	15.5
Paperboard Production by Furnish	38,103	38,456	3,292	3,262	3,277	3,306	39,003	0.5
Unbleached Kraft	19,140	19,490	1,683	1,681	1,736	1,722	20,082	1.9
Semichemical	5,664	5,691	499	467	489	478	5,706	–0.2
Solid Bleached Kraft	4,511	4,521	368	376	355	362	4,450	–2.4
Recycled	8,788	8,754	742	738	697	744	8,766	–0.8
Paperboard Production for Export	3,132	3,232	312	311	287	329	3,698	15.0
Unbleached Kraft	2,296	2,363	235	229	222	249	2,754	16.2
Semichemical	136	138	16	17	12	9	153	8.7
Bleached Kraft	628	693	56	61	49	65	739	10.5
Recycled	72	38	5	4	4	6	52	40.0
TOTAL PAPERBOARD PRODUCTION – UNADJ	38,103	38,456	3,292	3,262	3,277	3,306	39,003	0.5
TOTAL PAPERBOARD PROD – SEAS ADJ			3,191	3,258	3,261	3,180	38,649	0.5
PAPER AND PAPERBOARD – UNADJ	76,469	76,713	6,576	6,440	6,559	6,708	78,223	1.8
PAPER AND PAPERBOARD – SEAS ADJ			6,500	6,483	6,628	6,476	77,958	1.8

R – Revised P – Preliminary Seas. Adj. – Seasonally Adjusted Unadj – Not Seasonally Adjusted

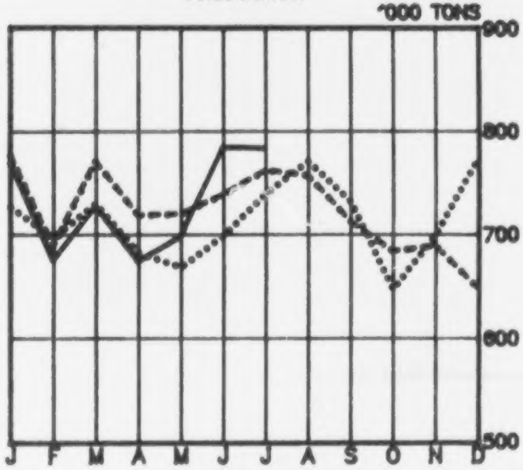
TOTAL PAPER AND PAPERBOARD

PRODUCTION



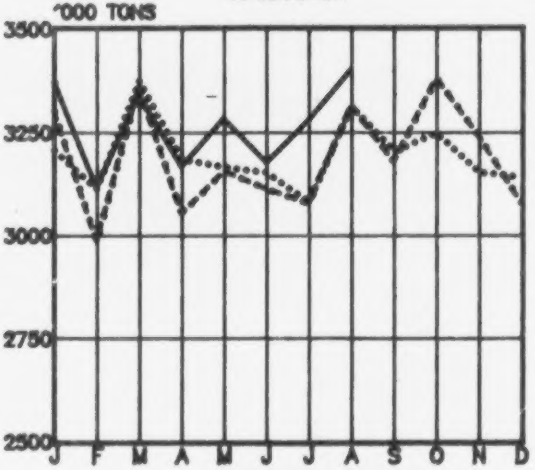
MARKET WOOD PULP

PRODUCTION



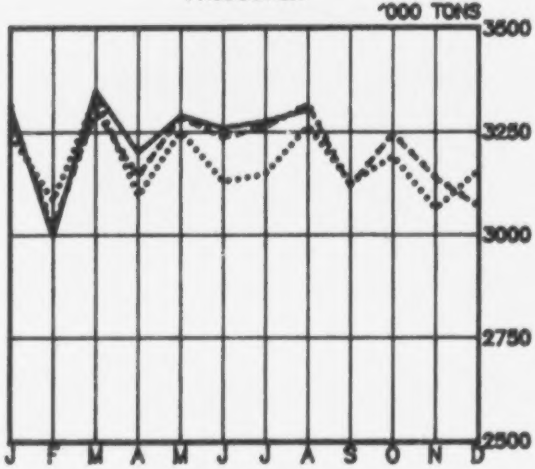
TOTAL PAPER

PRODUCTION



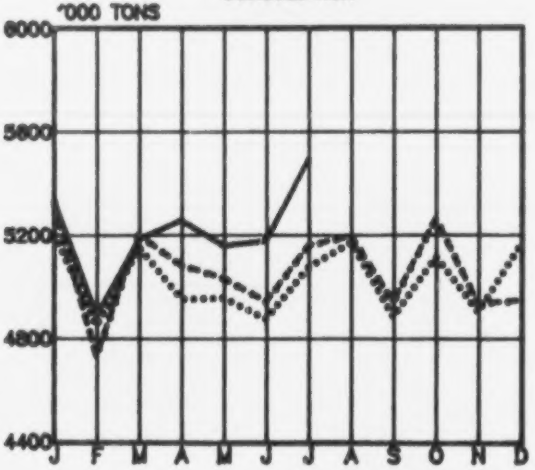
TOTAL PAPERBOARD

PRODUCTION



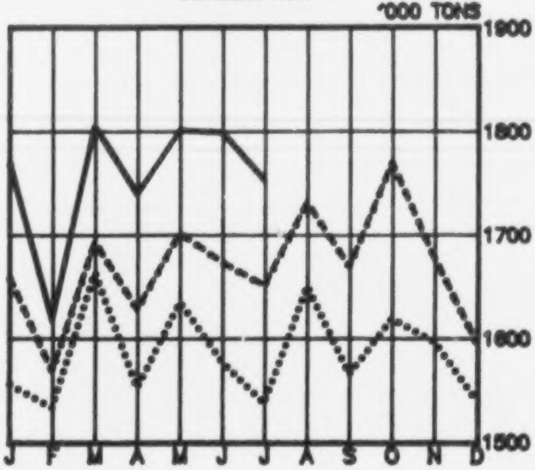
TOTAL WOOD PULP

CONSUMPTION



TOTAL WASTE PAPER

CONSUMPTION



1988 .... 1989 ------ 1990 ——

WOOD PULP STATISTICS (Thousands of Tons)		YEAR		APR	MAY	JUNE (R)	JULY (P)	Annual Rate Y-T-D	% Change From Same Period
		1988	1989	1990	1990	1990	1990	1990	Last Year
TOTAL WOOD PULP									
Total Wood Pulp	Production	61,161	61,998	5,254	5,156	5,175	5,490	63,052	1.2
	Imports A	5,038	5,005	418	428	364	470	5,050	2.4
	Exports	5,528	6,231	538	443	560	471	5,863	-8.0
	New Supply	60,671	60,772	5,134	5,141	4,978	5,489	62,296	2.4
Dissolving Pulp	Production	1,367	1,425	98	103	114	107	1,298	-8.7
	Imports	248	284	15	27	10	20	228	-18.3
	Exports	865	836	71	64	86	56	785	-5.4
	New Supply	751	873	42	66	38	71	742	-14.9
Paper Grades Chemical Pulp	Production	49,493	50,181	4,220	4,158	4,202	4,457	51,051	1.0
	Imports A	4,419	4,370	371	368	328	421	4,459	2.2
	Exports	4,612	5,325	460	377	469	412	5,027	-8.0
	New Supply	49,300	49,226	4,131	4,150	4,060	4,466	50,483	2.1
Groundwood and Thermo-Mech	Production	5,943	6,029	540	522	519	555	6,346	7.2
	Imports A	371	351	31	32	26	29	362	24.3
	Exports	51	70	8	2	5	3	51	-33.9
	New Supply	6,263	6,309	563	552	540	581	6,657	8.5
Semi-Chemical	Production	4,358	4,363	397	373	341	371	4,357	-0.6
	Imports								
	Exports								
	New Supply	4,358	4,363	397	373	341	371	4,357	-0.6
MARKET WOOD PULP									
Total Market Wood Pulp	Production	8,565	8,664	674	698	784	783	8,784	-1.0
	Imports	3,557	3,539	281	274	262	284	3,308	-7.7
	Exports	5,071	5,309	446	422	564	451	5,399	-0.6
	New Supply	7,051	6,893	509	550	482	616	6,693	-4.6
Dissolving Pulp	Production	1,365	1,422	97	103	113	107	1,297	-8.6
	Imports	206	210	8	25	7	16	168	-16.7
	Exports	798	821	59	60	90	61	791	-1.3
	New Supply	774	810	47	67	31	62	675	-17.7
Paper Grades Chemical Pulp	Production	7,200	7,242	577	595	669	675	7,482	0.4
	Imports	3,126	3,072	254	231	231	245	2,895	-6.8
	Exports	4,273	4,489	387	362	474	390	4,609	-0.5
	New Supply	6,052	5,825	444	464	426	530	5,768	-2.6
Groundwood Pulp and All Other	Production	0	(0)	0	0	2	2	0	0.0
	Imports RS	231	258	19	18	23	23	245	-10.4
	Exports	0	(0)	0	0	0	(0)	0	0.0
	New Supply	231	258	19	18	24	24	250	-8.6

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports – Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports – Department of Commerce.

NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data. RS – Revised Series (see Technical Note Page 12)

FIBROUS RAW MATERIALS (Thousands of tons)	YEAR		APR	MAY	JUNE (R)	JULY (P)	Annual Rate	% Change From Same Period
	1988	1989	1990	1990	1990	1990	1990	Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS								
Total	79,315	80,737	6,951	6,910	6,723	7,118	82,782	2.7
Total Wood Pulp	60,294	60,727	5,212	5,110	4,925	5,366	61,733	1.6
Waste Paper	19,021	20,010	1,739	1,800	1,798	1,752	21,050	6.1
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	172	193	196	184	214	209	209	9.4
Producers' Market Inventories	261	342	455	451	438	521	521	62.8
Consumers' Purchased Inventories #	622	519	431	437	485	432	432	-24.6
Waste Paper at Paper & Bd. Mills	1,044	1,085	1,007	1,017	1,031	1,043	1,043	0.0
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	14	19	22	22	21	25	25	56.3

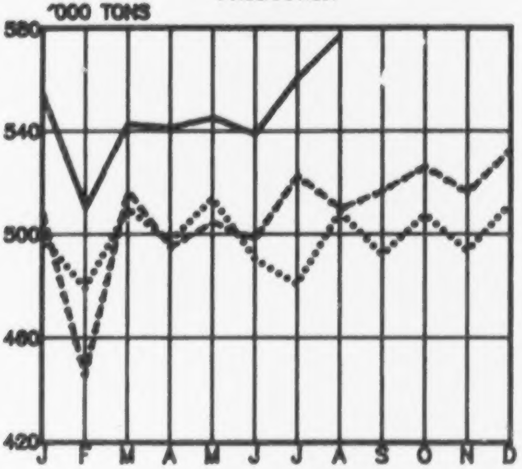
SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.

Includes all grades of wood pulp

P – Preliminary; R – Revised; (0) – Indicates zero to five-hundred short tons

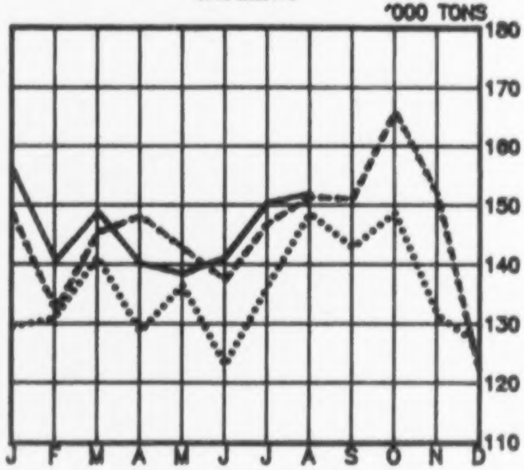
NEWSPRINT

PRODUCTION



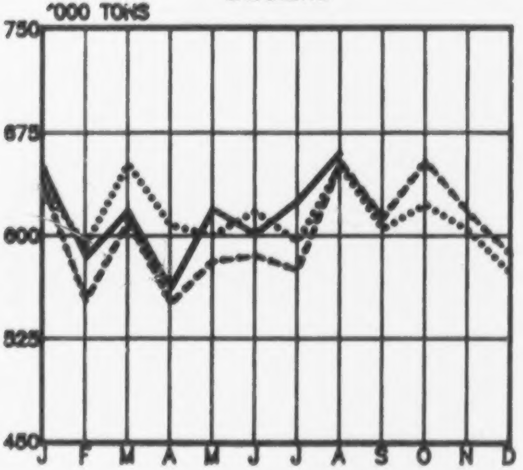
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



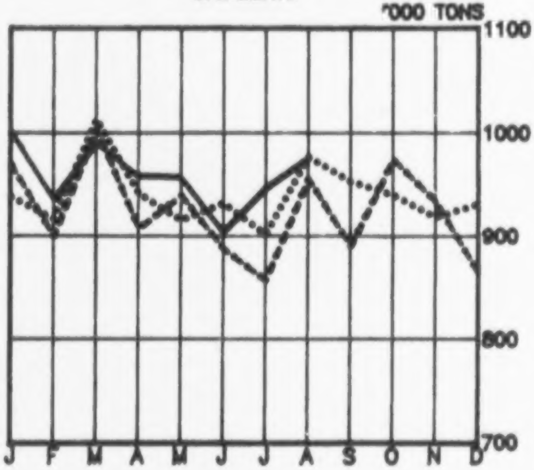
COATED PAPER

SHIPMENTS



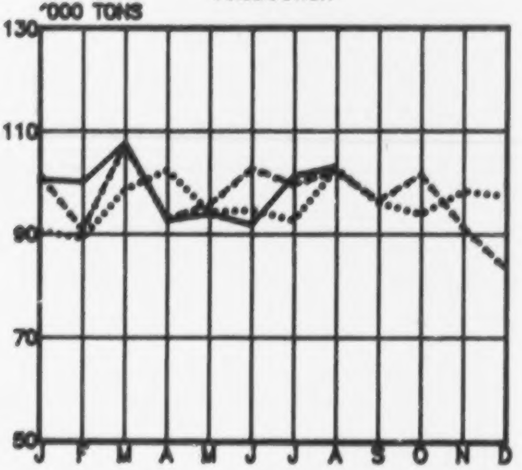
UNCOATED FREE SHEET PAPERS

SHIPMENTS



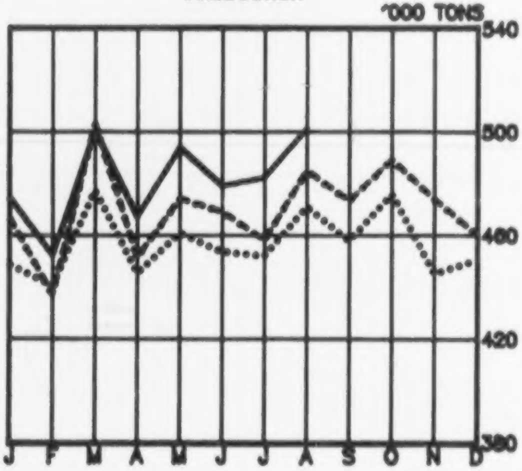
BLEACHED BRISTOLS

PRODUCTION



TISSUE PAPER

PRODUCTION



1988 ········ 1989 ------1990 ———

FIBROUS RAW MATERIALS (Thousands of Standard (128 Cu. ft.) Cord	YEAR 1988	YEAR 1989	APRIL 1990	MAY 1990	JUNE 1990	JULY 1990	ANNUAL RATE Y-T-D 1990	% CHANGE FROM SAME PD LAST YEAR
PULPWOOD								
Total U.S. - Total Receipts	95,537	99,279	8,136	8,014	8,006	8,396	99,033	1.5
- Total Consumpt	95,497	98,414	8,260	8,113	8,042	8,467	99,230	0.8
- Residues *	33,186	34,539	3,063	2,998	2,886	2,992	35,891	4.2
- Inventories	4,886	5,462	5,209	5,177	5,167	5,106	5,106	21.8
So. Atlantic - Total Receipts	31,582	31,982	2,769	2,862	2,844	2,896	32,765	3.2
- Total Consumpt	31,867	32,239	2,763	2,883	2,885	2,728	32,844	0.3
- Residues *	9,897	9,961	921	890	903	966	11,119	12.3
- Inventories	1,200	936	1,048	1,077	1,082	1,089	1,089	34.3
Northeast - Total Receipts	7,187	7,242	526	510	601	628	7,196	0.1
- Total Consumpt	7,216	7,072	646	536	603	614	7,286	1.2
- Residues *	1,664	1,576	126	120	129	117	1,481	-7.9
- Inventories	572	622	470	413	378	371	371	-16.4
South Central - Total Receipts	33,751	35,840	3,081	3,012	2,933	3,179	36,580	5.6
- Total Consumpt	33,646	35,791	2,827	2,995	2,908	3,193	36,314	2.9
- Residues *	9,890	10,539	998	1,015	951	982	11,457	12.5
- Inventories	1,160	1,336	1,223	1,164	1,192	1,228	1,228	95.9
North Central - Total Receipts	6,865	7,020	489	568	602	598	7,061	2.7
- Total Consumpt	6,929	6,963	596	608	579	590	7,149	2.1
- Residues *	1,334	1,422	118	116	106	108	1,317	-4.5
- Inventories	839	938	891	849	877	889	889	14.1
West - Total Receipts	16,152	17,195	1,323	1,284	1,226	1,294	15,490	-9.8
- Total Consumpt	16,139	16,349	1,326	1,311	1,289	1,344	15,958	-3.8
- Residues *	10,401	11,042	902	858	820	851	10,306	-7.5
- Inventories	1,117	1,730	1,577	1,674	1,638	1,531	1,531	8.0

* - Consumption of Residues in cords equivalent

SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA		IMPORTS FROM CANADA * YEAR 1989 Tons	 ($000)	 JUNE 1990 Tons	 ($000)	 JULY 1990 Tons	 ($000)	ANNUAL RATE Y-T-D 1990 Tons	% CHANGE FROM SAME PD LAST YEAR
Pulpwood, Roundwood (In cubic meters)		211,061	4,582	0	0	0	0	0	-100.0
Pulpwood chips		792,186	27,339	44,486	1,478	67,523	2,188	715,298	-16.8
Wood Pulp, Total	A	4,353,343	2,599,247	329,457	197,872	391,545	207,889	4,492,536	5.3
Waste Fibrous Materials, Total		164,217	31,659	10,248	2,480	9,177	1,994	142,483	-18.2
Paper, Board & Products, Total	A	10,986,831	6,104,181	952,031	537,878	937,071	537,879	11,432,258	7.0
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	A	10,807,659	5,782,419	939,225	509,913	926,132	511,360	11,281,336	7.5
Paper, Paperboard & Products	A	10,830,545	6,065,465	941,428	534,879	927,846	535,379	11,318,248	7.6
Paper & Paperboard, Only	A	10,651,373	5,743,703	928,622	507,014	916,910	508,850	11,167,324	8.1
Paper, Total	A	10,234,256	5,579,018	885,752	490,345	877,062	493,049	10,675,199	7.8
Newsprint	A	8,330,874	4,278,705	695,601	361,856	685,799	360,636	8,449,967	4.0
Printing, Writing & Rel. Pap.	A	1,579,696	1,069,203	157,798	105,290	159,984	110,027	1,876,650	28.0
Pack. & Ind. Conv. Paper		217,159	119,140	18,372	10,149	16,263	8,764	207,899	1.4
Special Industrial Paper		49,045	60,344	5,465	6,001	4,617	5,836	62,146	57.4
Tissue Paper		57,461	51,587	8,315	7,245	8,405	7,587	78,602	42.4
Paperboard, Total		417,117	164,685	42,870	16,669	39,848	15,801	492,129	20.1
Convtd Paper&Paperbd Products		179,172	321,762	12,806	27,985	10,939	26,520	150,922	-21.5
Wet Machine Board		293	245	70	54	57	53	820	177.9
Construction Paper & Board		155,993	38,472	10,533	2,845	9,165	2,447	113,091	-31.0

NOTE: A - API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

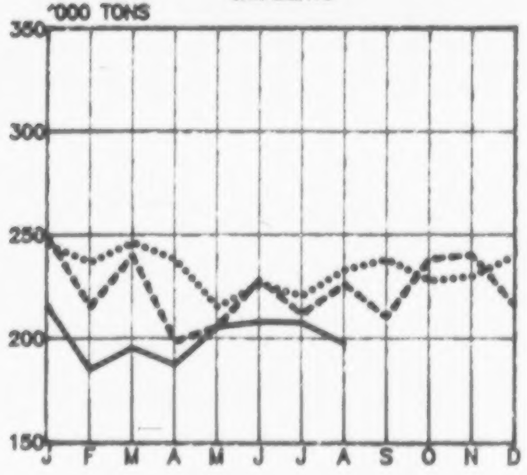
EXPORTS TO CANADA *	YEAR 1989 Tons	($000)	JUNE 1990 Tons	($000)	JULY 1990 Tons	($000)	ANNUAL RATE Y-T-D 1990 Tons	% CHANGE FROM SAME PD LAST YEAR
Pulpwood, Roundwood (In cubic meters)	62,892	1,120	61,674	2,099	132,013	3,362	627,727	1326.0
Pulpwood chips	28,218	1,241	19,893	929	6,871	325	174,274	665.8
Wood Pulp, Total	362,896	141,272	29,776	14,706	33,182	17,729	377,700	22.2
Cotton Pulp & Other Pulp	6,215	4,249	482	451	562	504	4,764	-28.1
Waste Paper	264,379	38,555	66,795	11,711	63,667	11,278	867,711	114.3
Paper, Board & Products, Total	1,083,228	763,813	106,995	115,966	99,162	106,233	1,193,295	19.1
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	754,575	497,470	78,709	69,953	72,839	64,945	894,894	38.5
Paper, Paperboard & Products	1,062,580	755,810	106,684	115,738	99,000	106,110	1,191,154	21.2
Paper & Paperboard, Only	733,907	489,686	78,398	69,725	72,677	64,822	892,564	31.8
Paper, Total	371,206	340,312	40,811	47,481	41,623	47,164	513,294	49.8
Newsprint	8,316	5,891	1,211	672	1,412	780	15,710	150.2
Printing, Writing & Rel. Pap.	228,021	222,055	30,239	34,880	30,808	34,743	375,155	70.4
Pack. & Ind. Conv. Paper	65,390	29,624	4,043	2,730	4,317	2,976	49,006	-6.5
Special Industrial Paper	62,645	72,955	4,248	8,191	3,949	7,432	57,268	-11.5
Tissue Paper	6,834	9,787	1,070	1,226	1,140	1,222	13,166	101.9
Paperboard, Total	362,701	149,356	37,587	22,244	31,064	17,666	379,270	13.5
Convtd Paper&Paperbd Products	328,653	266,143	28,286	46,013	26,324	41,288	298,601	-2.4
Wet Machine Board	1,526	660	0	0	0	0	0	-100.0
Construction Paper & Board	19,040	7,143	311	226	162	123	2,140	-87.2

SOURCE: Bureau of Census, Department of Commerce.

E - Estimate of tonnage based on square foot data

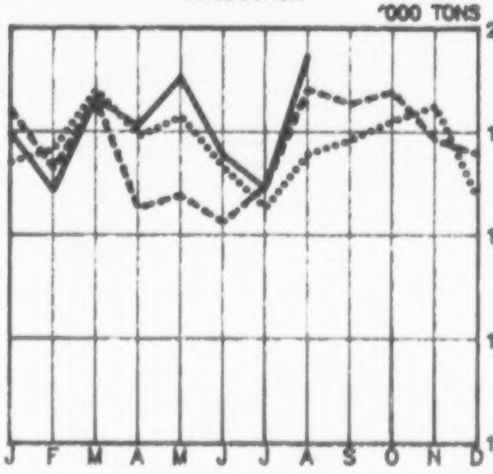
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



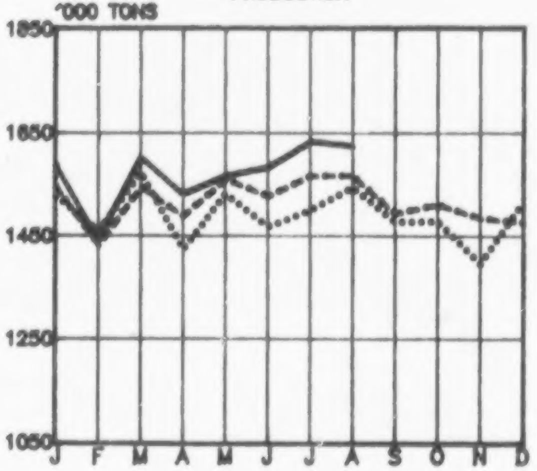
OTHER PAPER

PRODUCTION



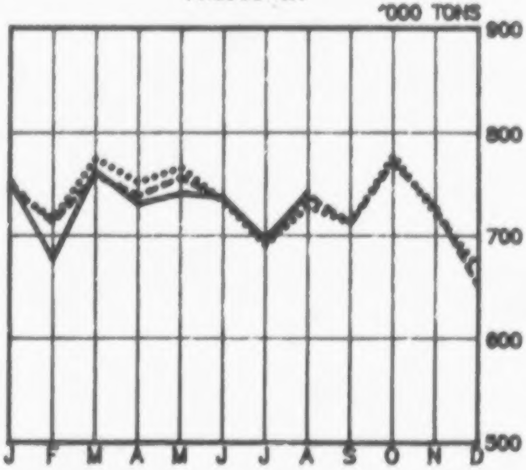
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



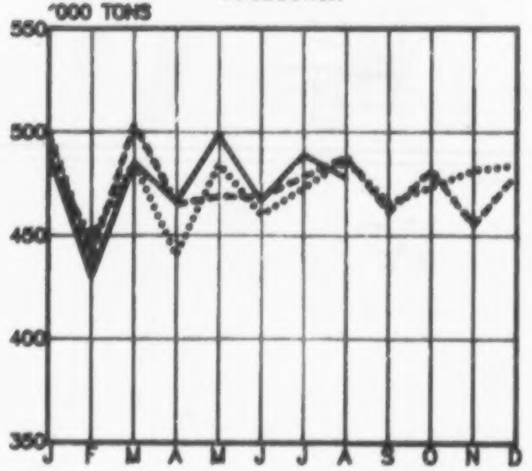
RECYCLED PAPERBOARD

PRODUCTION



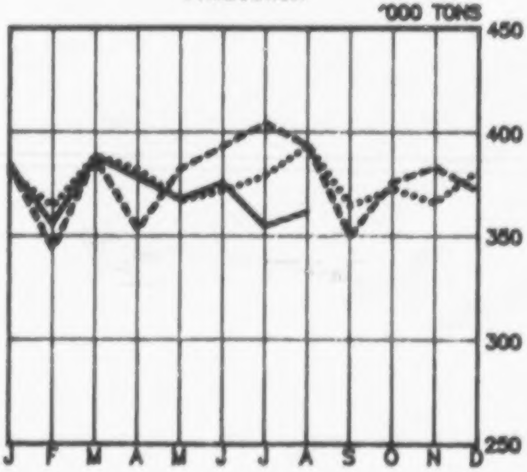
SEMICHEMICAL PAPERBOARD

PRODUCTION



SOLID BLEACHED PAPERBOARD

PRODUCTION



1988 ········ 1989 - - - - - 1990 ——

PULP, PAPER AND PAPERBOARD IMPORTS		YEAR 1989		JUNE 1990		JULY 1990		Annual Rate YTD 1990	% Change from same Period
		Tons	$000	Tons	$000	Tons	$000	Tons (1)	Last Year
Pulpwood Roundwood (cubic meters)		211,061	4,562	0	0	0	0	0	-100.0
Pulpwood Chips		805,361	27,799	44,566	1,484	67,545	2,194	716,120	-18.8
Total All Imports	A	18,286,800	11,352,263	1,464,892	836,921	1,575,460	998,904	18,562,509	3.3
Wood Pulp Total	A	5,005,100	2,980,642	383,722	216,192	469,850	252,521	5,049,093	2.4
Waste Paper		172,575	33,197	9,417	1,943	9,129	1,753	133,138	-30.2
Other Fibrous Materials		11,254	8,518	1,263	1,022	1,518	1,018	15,166	4.3
Paper Board & Products Total	A	13,099,931	8,329,906	1,120,590	716,764	1,094,963	711,704	13,364,703	4.1
Paper Paperboard Wet Machine Bd & Construction Paper & Board	A	12,537,474	7,231,648	1,086,423	634,652	1,060,715	626,566	12,941,473	5.8
Paper Ppbd & Prds ex Cnst&WMB	A	12,910,206	8,279,503	1,106,746	713,185	1,084,384	708,403	13,236,736	4.8
Paper & Paperboard Only	A	12,347,748	7,181,244	1,074,579	631,073	1,050,138	625,287	12,813,505	6.6
Paper Total	A	11,814,263	6,900,798	1,021,837	606,728	1,003,718	603,344	12,226,462	6.4
Newsprint	A	8,553,401	4,379,613	709,962	367,961	704,546	368,352	8,853,111	3.8
Printing & Writing	A	2,732,978	1,966,141	262,504	190,003	252,744	186,972	3,024,146	13.7
Uncoated Groundwood		1,304,114	817,785	106,171	67,580	105,287	67,831	1,299,537	1.1
Coated Print & Impreg Pap	A	774,022	632,484	87,745	69,435	82,681	66,436	962,806	29.9
Uncoated Free Sheet	A	583,677	462,404	59,742	45,093	56,957	43,666	693,698	22.0
Thin (except Cigarette)		12,711	15,200	663	1,006	678	743	10,382	-15.4
Bristols		59,052	66,267	6,164	6,891	7,241	6,399	67,723	14.1
Total Pkg & Other Paper		407,087	414,353	37,555	38,363	34,915	37,596	430,142	14.6
Unbleached Kraft Paper		239,303	116,011	22,634	10,958	19,240	9,807	234,066	4.3
Other Pkg. & Indust. Paper		167,785	298,342	14,921	27,406	15,676	28,068	196,067	30.1
Tissue		120,797	110,691	11,816	10,380	11,512	10,425	119,064	3.1
Paperboard, Total		533,486	280,446	52,742	24,345	46,416	21,943	587,043	9.8
Test or Containerboard		85,048	34,401	10,980	4,772	9,194	3,918	127,509	56.2
Semi-Chemical Corrugating		118,176	36,462	8,613	2,507	6,142	1,715	106,285	-18.7
Other Paperboard		330,262	209,584	33,149	17,066	32,282	18,060	353,250	9.2
Convtd Paper&Paperbd Products		562,457	1,098,259	34,167	82,112	34,248	83,116	423,230	-30.1
Paper Products, Total		470,471	924,729	24,837	65,447	25,658	66,991	319,632	-37.0
Paperboard Products, Total		91,986	173,529	9,330	16,665	8,590	16,126	103,408	8.3
Wet machine Board		606	580	100	78	72	71	1,192	104.8
Construction Paper & Board E		169,119	49,824	11,745	3,501	10,507	3,230	126,778	-36.5
Notes									
Other: No Weight Avail. ($000)			136,624		11,760		14,413	127,305	-2.9
Total Imports Incl. Other($000)			11,488,886		947,681		961,408	11,612,966	3.2

NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

PULP, PAPER AND PAPERBOARD EXPORTS	YEAR 1989		JUNE 1990		JULY 1990		Annual Rate YTD 1990	% Change from same Period
	Tons	$000	Tons	$000	Tons	$000	Tons (1)	Last Year
Pulpwood, Roundwood (cubic meters)	137,617	3,475	94,454	2,787	141,079	3,489	731,379	454.8
Pulpwood Chips	4,357,811	366,154	439,257	39,474	388,523	33,598	4,342,806	-2.1
Total All Exports	18,633,806	8,803,945	1,807,389	792,782	1,909,817	713,388	20,180,631	8.8
Wood Pulp,Total	6,231,172	3,512,804	590,237	298,483	470,886	240,041	5,882,588	-6.0
Cotton Pulp and Other Pulp	122,045	190,510	27,476	15,827	13,841	9,649	141,415	17.7
Waste and Old Paper	5,980,620	729,797	744,984	67,700	880,481	58,968	7,382,556	19.8
Paper, Board & Products,Total	6,299,768	4,261,035	574,089	413,272	544,630	404,810	6,794,072	8.3
Paper,Paperboard,Wet Machine Bd & Construction Paper & Board	5,259,733	2,982,686	489,667	283,307	462,100	274,420	5,787,149	10.5
Paper, Ppbd & Prod ex Cnst&WMB	6,263,491	4,248,277	573,851	412,781	544,063	404,379	6,785,234	8.8
Paper & Paperboard, Only	5,223,456	2,967,928	488,860	282,816	461,533	273,989	5,756,311	11.1
Paper, Total	1,465,752	1,233,527	113,309	110,439	107,962	107,303	1,472,129	-0.3
Newsprint	624,796	357,381	32,844	17,095	35,438	18,409	503,569	-21.1
Printing & Writing	478,201	485,168	54,307	59,141	48,767	54,980	663,712	41.4
Uncoated Groundwood	88,056	64,766	6,615	5,360	5,079	4,335	73,198	-20.7
Clay Coated Paper	168,538	131,418	18,968	18,797	15,718	16,062	212,483	30.4
Uncoated Free Sheet	122,346	186,830	17,792	24,054	18,554	24,553	233,441	114.0
Other Printing & Writing	99,260	102,154	10,912	10,931	9,411	10,029	144,679	37.8
Total Pkg. & Other Paper	342,041	380,790	24,307	32,038	21,571	31,209	273,590	-21.0
Unbleached Kraft	125,818	60,318	10,568	4,987	8,165	4,454	110,882	-6.2
Other Pkg. & Indust. Paper	216,223	320,472	13,739	27,051	13,406	26,756	163,007	-29.1
Tissue	20,712	30,187	1,851	2,165	2,187	2,704	30,928	38.1
Paperboard, Total	3,757,704	1,734,402	375,561	172,377	353,571	166,686	4,266,182	15.7
Solid Wood Pulp	3,572,758	1,646,152	347,254	158,684	334,881	156,844	4,036,904	14.8
Total Linerboard	2,499,716	935,364	263,564	97,938	244,240	90,894	2,966,229	18.7
Bleached Kraft Linerboard	283,113	127,787	18,507	7,857	17,770	8,980	278,708	8.9
Unbleached Kraft Linerbd	2,216,603	807,578	245,057	90,081	226,470	81,915	2,687,519	20.9
Other Unbleached Kraft	246,575	113,315	21,343	12,071	19,200	11,022	267,455	8.9
Other Bleached Kraft	795,305	582,979	57,188	48,849	64,912	52,707	757,307	-2.0
Semi-Chemical Corrugating	31,162	14,494	5,182	1,828	6,509	2,221	45,914	71.3
Recycled Paperboard	184,947	88,250	28,297	13,693	18,711	9,842	249,278	38.6
Convtd Paper&Paperbd Products	1,040,035	1,278,349	84,991	129,964	82,530	130,390	1,026,923	-2.8
Paper Products, Total	473,435	832,808	34,978	81,640	36,327	86,819	419,180	-13.5
Paperboard Products, Total	566,601	445,543	50,013	48,325	46,203	43,570	607,742	8.7
Wet Machine Board	2,889	1,256	48	18	0	0	828	-62.9
Construction Paper & Board E	33,388	13,501	790	473	567	431	8,208	-74.5
Notes								
Other: No Weight Avail. ($000)		23,865		4,448		5,975	48,299	111.5
Total Exports Incl. Other($000)		8,827,611		797,230		719,363	9,156,836	5.0

SOURCE: Bureau of Census, U.S. Department of Commerce. E – Incl. estim. of tonnage based on square foot data.

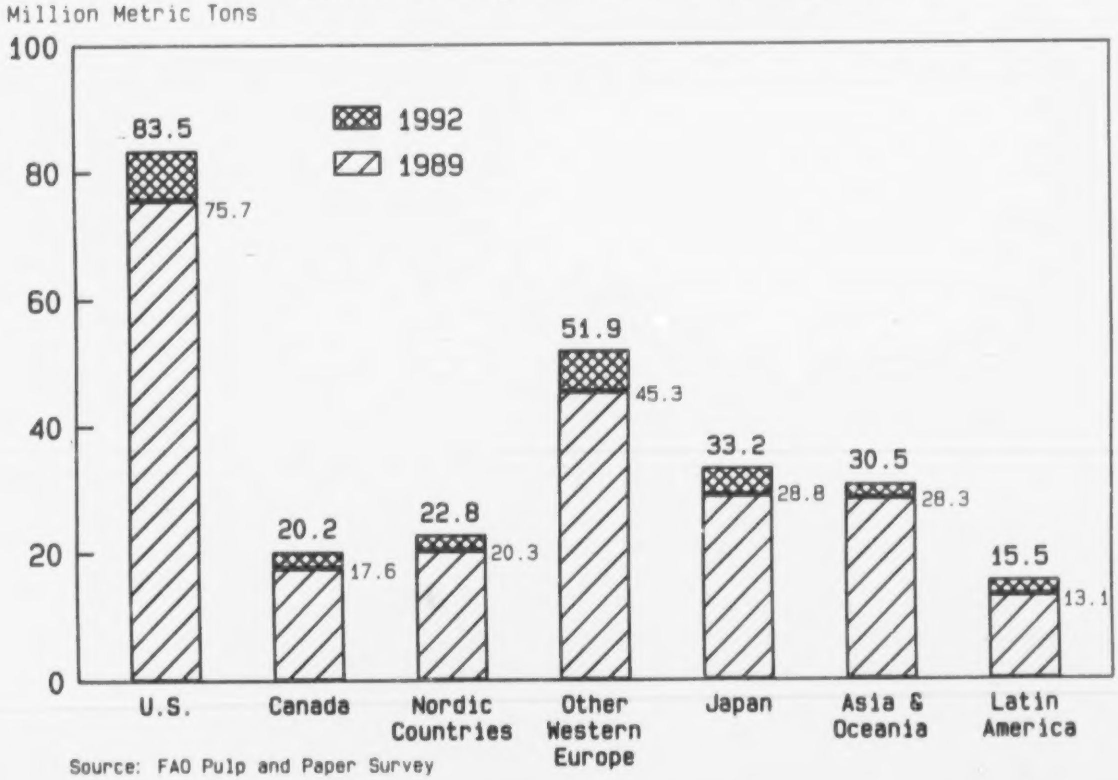
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES 1982 = 100	YEAR		MAY	JUNE	JULY	AUGUST	Annual Rate Y-T-D	% Change from same Period
	1988	1989	1990	1990	1990	1990	1990	Last Year
Pulp, Paper and Products except Building Grades	124.8	132.4	132.9	132.8	132.6	132.4	133.0	0.8
Pulp Paper & Products, ex. Building Grades & ex. Waste Paper * _	123.8	132.0	132.8	132.7	132.6	132.4	132.8	1.0
Total Wood Pulp	136.7	157.4	152.8	152.0	151.1	150.6	155.0	-0.7
Total Paper	123.2	129.6	127.9	128.8	129.1	129.1	128.2	-1.5
Writing Paper, exc. Newsprint	123.4	130.5	128.5	128.9	129.3	129.2	128.5	-2.1
Newsprint	127.6	122.5	115.0	121.0	121.6	121.9	117.9	-5.0
Total Paperboard	133.2	140.1	135.8	135.4	134.9	133.3	136.8	-2.5
Total Paper and Paperboard *	126.4	132.9	130.4	130.9	130.9	130.4	130.9	-1.8
Converted Products	123.0	131.7	135.4	135.0	134.9	135.2	135.0	3.3
Waste Paper	183.6	157.1	141.0	135.9	133.3	129.6	142.1	-10.0
All Commodities	106.9	112.2	114.5	114.2	114.3	116.5	114.6	2.4
Industrial Commodities	106.3	111.6	113.3	113.1	113.2	115.9	113.7	2.2

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

PAPER AND PAPERBOARD CAPACITY

(Selected Regions of the World)



Source: FAO Pulp and Paper Survey

WORLD PAPER AND PAPERBOARD CAPACITY OUTLOOK

World capacity to produce paper and paperboard is slated to increase by 30.2 million metric tons from 1989 levels to reach 281.2 million tons in 1992, according to this year's Food and Agricultural Organization (FAO) capacity survey. (See chart on page 10.) The anticipated growth in world paper and paperboard capacity averages 3.9% a year for the 1989-92 period, versus 3.3% during 1985-89 and 2.7% during 1980-89. The survey, which is based on data provided to the FAO by national pulp and paper trade associations, governments, and FAO regional offices, measures industry plans and expectations as of mid-1989.

The 1989 world totals represent an annual average growth of 2.7% over the decade of the 1980's (see table on page 12). U.S. producers installed 13 million tons of new capacity, by far the largest tonnage gain of any other country. In percentage terms, major increases were reported in the rapidly-developing paper industries outside the traditional supply regions of North America and Western Europe.

The following discussion is based on an analysis of the FAO survey prepared by API's International Department.

Regional capacity expansions from 1989 to 1992 will be especially rapid in Latin America (5.9% a year), Japan (4.9%), Canada (4.8%), and Western Europe (4.4%). Brazil will account for most of Latin America's capacity expansion. U.S. paper and paperboard capacity is projected to grow 3.3% a year from 1989 to 1992, for a three year gain of 7.9 million metric tons, equal to 26% of anticipated worldwide capacity expansions for the period.

World capacity to produce printing-writing papers is expected to increase at an average rate of 4.9% a year from 1989 to 1992. That's the highest growth rate of any major grades, but is shy of the 5.6% average annual pace recorded from 1985 through 1989.

U.S. producers plan a 3.6% a year increase, compared to their 4.0% a year gain in the previous 4 years. Canadian printing-writing paper capacity is slated to grow 9.4% a year from 1989 through 1992, with uncoated free sheet paper making the largest contribution to the overall gain of 1.1 million metric tons. In Latin America, printing-writing paper capacity is projected to grow 8.8% a year, or 0.8 million metric tons, between 1989 and 1991, with much of the increase taking place in Brazil. The Nordic countries will expand their printing-writing paper capacity by 1.5 million tons -- 6.6% a year -- through 1992.

Newsprint capacity will grow 4.7% a year on a worldwide basis for an overall tonnage gain of 5.1 million metric tons through 1992. North American newsprint capacity growth is projected at 3.7% a year; Western Europe and Latin America about 12% a year. Latin

America's increase will primarily reflect a new newsprint mill in Venezuela and a new machine in Brazil.

World linerboard capacity growth is projected at 3.8% a year (1989-92), versus 4.5% during the previous four years. U.S. growth is projected at 4.5% and Canadian growth at 5.8% a year. The U.S. industry expects to add 740,000 metric tons of recycled linerboard capacity by the end of 1992, nearly tripling the present level. Kraftliner will comprise most of the 240,000 tons of capacity scheduled to be added in Canada.

The FAO survey also indicates that tissue paper capacity will increase at a 3.4% average annual rate (1989-92), with Western European growth projected at 3.1% and Canadian growth at 9.5%. The growth rate for folding boxboard is projected at 3.3%, versus a 2.9% average annual pace in the 1985-89 period.

WORLD PAPER AND PAPERBOARD CAPACITIES BY MAJOR AREA
(000 metric tons)

	1980	1989	Average Annual Growth 1980-89	1992	Average Annual Growth 1989-92
United States	62,485	75,659	2.1%	83,511	3.3%
Canada	14,682	17,581	2.0	20,225	4.8
Nordic Countries	15,260	20,315	3.2	22,790	3.9
Other Western Europe	36,518	45,286	2.4	51,897	4.6
Japan	21,602	28,847	3.3	33,260	4.9
Asia & Oceania*	19,320	28,274	4.3	30,466	2.5
Latin America	9,290	13,055	3.9	15,511	5.9
Africa	747	3,274	17.8	3,564	2.9
USSR/Eastern Europe	18,091	18,700	0.4	20,008	2.3
TOTAL WORLD	**197,995**	**250,991**	**2.7**	**281,232**	**3.9**

*Excludes Taiwan
Source: Pulp and Paper Capacities 1989-1994, FAO; US data from API

Technical note: API has recently received new data from the Canadian Pulp and Paper Association on shipments of groundwood market pulp to the United States, which resulted in a major revision in the data on market imports of these grades. API uses Canadian data on shipments of market wood pulp to the United in its estimates of total market wood pulp imports.

The new CPPA data show 1988 and 1989 totals, and monthly data starting in December 1989. API estimated monthly data for the other 1989 months and all of 1988 on the basis of the new yearly totals and the earlier reported totals of monthly shipments of groundwood market pulp to the United States from Canada (see table on page 5).

MONTHLY STATISTICAL SUMMARY INSERT
VOL. 68, NO. 9
SEPTEMBER, 1990

PRODUCTION (000 TONS)

	(P) AUG 1990	(R) JULY 1990	AUG 1989	FIRST 8 MONTHS 1990	FIRST 8 MONTHS 1989	% CHANGE YR TO DATE 1990/1989
PAPER GRADES						
Newsprint	577	560	510	4,368	3,998	9.0
Printing & Writing	1,922	1,852	1,897	14,804	14,384	2.9
Uncoated Groundwood (s)	152	150	151	1,167	1,153	1.5
Coated Groundwood (s)	372	358	357	2,771	2,656	4.5
Coated Free Sheet (s)	289	268	298	2,149	2,088	2.6
Total Coated Paper (s)	661	625	654	4,919	4,744	3.7
Uncoated Free Sheet Paper (s)	975	946	956	7,665	7,418	3.3
Thin Paper (s)	19	18	21	153	169	-11.5
Cotton Fiber Paper (s)	13	12	13	110	109	0.8
Bleached Bristols (s)	103	101	102	789	791	-0.2
Tissue Paper	501	482	484	3,847	3,741	2.4
Total Pkg & Other Paper	402	387	425	3,127	3,252	-3.7
Unbl. Kraft Paper (s)	198	208	227	1,602	1,776	-9.4
Other Paper	205	179	198	1,525	1,476	3.1
TOTAL PAPER	3,402	3,281	3,316	26,146	25,375	3.0
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,722	1,736	1,697	13,388	13,132	1.9
Unbleached Kraft Linerboard	1,624	1,633	1,568	12,573	12,232	2.8
Other Unbl. Kraft Paperboard	98	104	129	815	900	-9.5
Semichemical Paperboard	362	489	488	3,688	3,813	-3.3
Bleached Paperboard	478	355	394	3,082	3,040	1.4
Recycled Paperboard	744	697	740	5,844	5,890	-0.8
TOTAL PAPERBOARD	3,306	3,277	3,319	26,002	25,876	0.5
TOTAL PAPER AND PAPERBOARD	6,708	6,559	6,635	52,149	51,250	1.7

WOOD PULP (ALL GRADES)	JULY 1990	JUNE 1990	JULY 1989	FIRST 7 MONTHS 1990	FIRST 7 MONTHS 1989	% CHANGE YR TO DATE 1990/1989
Dissolving & Special Alpha	107	114	144	757	830	-5.1
Bleached Sulfite)	130	136	131	924	918	0.8
Unbleached Sulfite)						
Bleached & Semi-Bl. Sulfate	2,424	2,237	2,352	16,014	15,879	0.5
Unbleached Sulfate	1,902	1,829	1,894	12,842	12,700	1.2
Semichemical	371	341	368	2,575	2,556	0.8
Groundwood & Thermomechanical	555	519	510	3,702	3,454	6.9
TOTAL PULP DIVISION DATA	5,490	5,175	5,399	36,814	36,337	1.2

(s) - Shipments
P - Preliminary
R - Revised

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

INDUSTRY DATA September 30, 1990	1988	1989	1990	1990 R	1990 P	AN RATE Y-T-D 90	% CH/ SAME PD 89
PAPER AND PAPERBOARD — Tons (000)			JUNE	JULY	AUGUST		
Total Production (API)........: excluding :	78,469	78,713	6,440	6,559	6,706	78,223	1.8
Total Seasonally Adjusted.........: construction :			6,463	6,628	6,476	77,958	1.8
Imports (including Products).......: and wet :.....E	12,788	12,910	1,109	1,084	1,090	13,217	2.8
Exports (including Products).......: machine :.....E	5,559	6,264	574	544	580	6,777	7.8
Apparent Consumption..............: grades :	83,697	83,358	7,018	7,188	7,006	84,663	1.8
Paper Production % Tonnage Capacity	96.4	92.6	91.1	91.1	96.1	92.6	–
Paperboard Production % Tonnage Capacity	94.5	93.5	94.3	91.4	91.2	92.9	–
PAPER, PAPERBOARD AND PRODUCTS			MAY	JUNE	JULY		
Imports.....:including Construction and :	13,110	13,101	1,111	1,121	1,096	13,365	4.1
Exports.....: WMB Grades (excl. HPB) :	5,691	6,300	548	575	545	6,794	8.3
MARKET WOOD PULP PRODUCTION – Tons (000)	8,586	8,664	698	784	768	8,736	-1.8
TOTAL WOOD PULP PRODUCTION – Tons (000)	61,161 f	61,898 f	5,156	5,175	5,490	65,110	1.3
WOOD PULP IMPORTS – TONS (000)	5,038	5,005	428	394	470	5,050	2.4
WOOD PULP EXPORTS – TONS (000)	5,522	6,231	443	580	471	5,863	-5.8
RAW MATERIALS CONSUMPTION – Tons (000)							
PAPER AND BOARD MILLS....: excluding :			MAY	JUNE	JULY		
Wood Pulp.....................: consumption for :	60,294	60,727	5,110	4,925	5,398	61,733	1.6
Waste Paper...................: construction & :	18,021	20,010	1,800	1,798	1,752	21,048	6.1
TOTAL.........................: WMB grades :	79,315	80,737	6,910	6,723	7,118	82,780	2.7
PULPWOOD CONSUMPTION Cords (000) Amer. Pulpwd. Assn	95,467	98,414	8,113	8,042	8,467	99,230	0.8
EMPLOYMENT (000)			JUNE	JULY	AUGUST		
Paper and Allied Products.........Total	692.6	697.1	705.7	704.6	705.8	698.7	0.3
Pulp, Paper and Board Mills.......Total.....E	247.2	247.1	251.1	N.A.	N.A.	N.A.	N.A.
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			JUNE	JULY	AUGUST		
Paper and Allied Products	11.88	11.96	12.36	12.29	12.39	12.23	2.7
Pulp, Paper Mills.....E	14.31	14.71	15.06	N.A.	N.A.	N.A.	N.A.
Paperboard Mills.....E	14.49	14.76	14.97	15.08	15.18	15.08	3.1
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS (Rept. by US Dept. of Com., Ann. Rates, Bill.$)*			1989 Q4	1990 Q1	1990 Q2		
	10.92	15.58	17.44	17.56	18.59	17.36	11.4
INDEX OF OUTPUT PER MAN-HOUR (1977=100)			JUNE	JULY	AUGUST		
:IN PULP, PAPER :...Production Workers	146.0	146.7	146.9	N.A.	N.A.	N.A.	N.A.
:AND BOARD MILLS:...All Employees	142.6	143.5	144.1	N.A.	N.A.	N.A.	N.A.
PAPER AND ALLIED PRODUCTS (Million $)			MAY	JUNE	JULY		
Industry Shipments (Dept. of Commerce)*	127,718	130,501	10,868	11,129	11,089	130,759	0.1
Pulp, Paper and Paperboard*	57,177	57,700	4,704	4,729	4,777	55,906	-4.5
Inventories (End of Period) – Total Industry*	12,088	12,571	12,773	12,842	12,758	12,842	2.8
Pulp, Paper and Paperboard*	4,325	4,980	5,101	5,182	5,208	5,182	7.9
PAPER AND ALLIED PRODUCTS COMPANIES (Million $)			1989 Q4	1990 Q1	1990 Q2		
Sales (Corporations Only)	107,221	113,573	28,881	28,534	28,844	114,756	1.6
Earnings (Corporations Only)	8,081	7,047	1,160	1,389	1,630	6,036	-24.8
Depreciation (Corporations Only)	4,625	5,010	1,301	1,347	1,341	5,376	9.8
Net Worth (Corporations Only)	42,940	45,642	45,642	48,519	45,597	45,597	1.4
PRICE INDEXES (Bureau of Labor Stats)1982=100			JUNE	JULY	AUGUST		
Pulp, Paper & Products, ex. Building Grades	124.8	132.4	132.7	132.6	132.4	133.0	0.8
Wood Pulp	136.7	157.4	152.0	151.1	150.6	154.8	-0.8
Waste Paper	183.6	157.1	135.9	133.3	129.6	142.0	-10.1
Paper	123.2	129.6	128.8	129.1	129.1	128.2	-1.5
Paperboard	133.2	140.1	135.4	134.9	133.3	136.7	-2.5
PAPER DEMAND (INDEXED: 1987=100)			JUNE	JULY	AUGUST		
Total Paper Production *	103.9	103.6	104.9	108.5	107.2	106.5	3.1
Paper New Supply *	103.8	102.3	104.2	107.5	105.8	105.3	3.3
Demand Indicators – (Weighted Average) *	103.8	107.8	110.4	110.7	110.7	110.3	2.8
Production of Nondurable Goods..........*....(21.2%)	103.6	108.4	107.6	108.1	108.1	107.7	1.5
Disposable Income.........................*....(23.9%)	104.4	107.2	108.8	109.1	109.1	108.7	1.9
Total Printing and Publishing.............*....(54.9%)	103.6	108.6	112.2	112.4	112.4	112.0	3.6
PAPERBOARD DEMAND (INDEXED: 1987=100)			JUNE	JULY	AUGUST		
Total Paperboard Production *	101.7	102.6	104.4	104.5	101.9	103.2	0.5
Production for Domestic Use	102.0	102.7	103.3	104.2	99.9	102.0	-0.9
Demand Indicators – (Weighted Average) *	104.7	107.2	108.7	108.5	108.5	107.9	0.8
Production of Consumer Goods..........*....(62.06%)	104.0	108.6	108.1	107.5	107.7	107.3	1.0
Production of Equipment...................*....(5.75%)	107.5	112.3	116.5	118.4	115.8	115.0	2.4
Production of Materials....................*....(32.19%)	105.6	107.4	108.5	109.0	108.6	107.7	0.2
MARKET DATA			MAY	JUNE	JULY		
Consumption by Publishers – Tons (000)	13,487	13,493	1,179	1,108	1,073	15,182	15.5
Newspaper Pub. and Printing Empl. Total(000)	475	473	477	480	479	477	1.1
Magazine Advertising Pages (PIB, Inc.)	172,580	179,796	15,302	14,050	10,176	163,925	-4.6
Wholesalers Sales and Inventories (Million $)			MAY	JUNE	JULY		
Total Paper & Pap. Prodts.,ex Wallpaper..Sales	52,377	56,803	4,331	4,259	4,476	51,585	-6.0
Inventories (End of Period)	4,436	4,506	3,982	4,062	4,091	4,091	-12.0
FIBRE BOX DATA (Fibre Box Association)			JUNE	JULY	AUGUST		
Fibre Box Shipments (Million square feet)	308,507	313,400	26,292	26,447	28,055	319,845	1.3
Container'bd Inventory at Mill & Plant (000 Tons)	2,553	2,589	2,503	2,653	2,590	2,590	-2.8
RETAIL TRADE (Billion $)							
Total Retail Sales *	1,622	1,711	149.4	150.0	149.2	1,790	5.3
Nondurable Goods Stores Sales *	985	1,062	95.6	95.6	0.0	994	-5.5
GENERAL ECONOMIC DATA			JUNE	JULY	AUGUST		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1987 = 100)*	105.4	108.1	110.0	110.0	109.8	109.1	1.0
PRODUCER PRICES (ALL COMMODITIES) (INDEX 1982=100)	106.9	112.2	114.2	114.3	116.5	114.6	2.3
CONSUMER PRICES (ALL ITEMS–URBAN CON.) (1982–4=100)	118.3	124.0	129.9	130.4	131.6	129.3	5.0
GROSS NATIONAL PRODUCT – ANNUAL RATE (Billions)			1989 QIV	1990 Q1	1990 Q2		
G.N.P. or Expenditure – Current $	4,874	5,201	5,289	5,375	5,452	5,414	5.4
G.N.P. or Expenditure – 1982 $	4,017	4,118	4,133	4,151	4,163	4,157	1.3
PAPER AND PAPERBOARD CONSUMPTION – POUNDS PER CAPITA	677	667				676	

f - Wood Pulp Prod exc del., explo & scr. R - Revised E - Last month estimated by API

Y - Full year estimated by Dep't of Commerce * Seasonally Adjusted